

**SENECA ARMY DEPOT**  
ROMULUS, NEW YORK

01922  
126

**SENECA ASH LANDFILL**  
**VALIDATED DATA TABLES**  
**PHASE I AND II**

OCTOBER 1993

**ENGINEERING-SCIENCE, INC.**  
BOSTON, MASSACHUSETTS

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL     | SOIL     | SOIL     | SOIL     | SOIL         | SOIL       | SOIL         | SOIL     |
|----------------------------|----------|----------|----------|----------|----------|--------------|------------|--------------|----------|
|                            | LOCATION | B-1      | B-1      | B-1      | B-2      | B-2          | B-2        | B-2          | B-2      |
|                            | DEPTH    | 0-2      | 2-4      | 4-6      | 0-2      | 0-2          | 2-4        | 2-4          | 6-8      |
|                            | DATE     | 10/30/91 | 10/30/91 | 10/30/91 | 10/31/91 | 10/31/91     | 10/31/91   | 10/31/91     | 10/31/91 |
|                            | ES ID    | S1030-1  | S1030-2  | S1030-3  | S1031-4  | S1031-4DL(5) | S1031-5    | S1031-5RE(4) | S1031-6  |
|                            | LAB ID   | 147824   | 147825   | 147826   | 147827   | 147827       | 147828     | 147828       | 147829   |
|                            | UNITS    |          |          |          |          |              |            |              |          |
| <b>VOCs</b>                |          |          |          |          |          |              |            |              |          |
| Chloromethane              | µg/Kg    | 12 U     | 12 U     | NS       | 1500 U J | 9900 U R     | 150000 U R | 1500 U       | 1600 U   |
| Bromomethane               | µg/Kg    | 12 U     | 12 U     | NS       | 1500 U J | 9900 U R     | 150000 U R | 1500 U       | 1800 U   |
| Vinyl Chloride             | µg/Kg    | 12 U     | 12 U     | NS       | 1500 U J | 9900 U R     | 150000 U R | 1500 U       | 920 J    |
| Chloroethane               | µg/Kg    | 12 U     | 12 U     | NS       | 1500 U J | 9900 U R     | 150000 U R | 1500 U       | 1600 U   |
| Methylene Chloride         | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 7300 U R   | 730 U        | 780 U    |
| Acetone                    | µg/Kg    | 12 U     | 12 U     | NS       | 1500 U J | 9900 U R     | 150000 U R | 1500 U       | 1600 U   |
| Carbon Disulfide           | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| 1,1-Dichloroethene         | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| 1,1-Dichloroethane         | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| 1,2-Dichloroethene (total) | µg/Kg    | 6 U      | 6 U      | NS       | 12000 J  | 10000 U R    | 73000 U R  | 1900         | 21000    |
| Chloroform                 | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| 1,2-Dichloroethane         | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| 2-Butanone                 | µg/Kg    | 12 U     | 12 U     | NS       | 1500 U J | 9900 U R     | 150000 U R | 1500 U       | 1600 U   |
| 1,1,1-Trichloroethane      | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| Carbon Tetrachloride       | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| Vinyl Acetate              | µg/Kg    | 12 U     | 12 U     | NS       | 1500 U J | 9900 U R     | 150000 U R | 1500 U       | 1600 U   |
| Bromodichloromethane       | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| 1,2-Dichloropropane        | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| cis-1,3-Dichloropropene    | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| Trichloroethene            | µg/Kg    | 6 U      | 6 U      | NS       | 3900 R   | 28000        | 73000 U R  | 4400         | 17000 R  |
| Dibromochloromethane       | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| 1,1,2-Trichloroethane      | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| Benzene                    | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| trans-1,3-Dichloropropene  | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| Bromoform                  | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| 4-Methyl-2-Pentanone       | µg/Kg    | 12 U     | 12 U     | NS       | 1500 U J | 9900 U R     | 150000 U R | 1500 U       | 1600 U   |
| 2-Hexanone                 | µg/Kg    | 12 U     | 12 U     | NS       | 1500 U J | 9900 U R     | 150000 U R | 1500 U       | 1600 U   |
| Tetrachloroethene          | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| Toluene                    | µg/Kg    | 6 U      | 6 U      | NS       | 580 J    | 5000 U R     | 73000 U R  | 220 J        | 280 J    |
| Chlorobenzene              | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| Ethylbenzene               | µg/Kg    | 6 U      | 6 U      | NS       | 580 J    | 5000 U R     | 73000 U R  | 250 J        | 780 U    |
| Styrene                    | µg/Kg    | 6 U      | 6 U      | NS       | 740 U J  | 5000 U R     | 73000 U R  | 730 U        | 780 U    |
| Xylene (total)             | µg/Kg    | 6 U      | 6 U      | NS       | 2900 J   | 1300 U R     | 73000 U R  | 1200         | 400 J    |

NOTE: "NS" = NOT SAMPLED

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL     | SOIL     | SOIL     | SOIL     | SOIL         | SOIL     | SOIL         | SOIL     | SOIL     |
|------------------------------|----------|----------|----------|----------|--------------|----------|--------------|----------|----------|
| DEPTH                        | B-1      | B-1      | B-1      | B-2      | B-2          | B-2      | B-2          | B-2      | B-2      |
| DATE                         | 0-2      | 2-4      | 4-6      | 0-2      | 0-2          | 2-4      | 2-4          | 2-4      | 6-8      |
| ES ID                        | 10/30/91 | 10/30/91 | 10/30/91 | 10/31/91 | 10/31/91     | 10/31/91 | 10/31/91     | 10/31/91 | 10/31/91 |
| LAB ID                       | S1030-1  | S1030-2  | S1030-3  | S1031-4  | S1031-4DL(5) | S1031-5  | S1031-SRE(4) | S1031-6  | S1031-6  |
| COMPOUND                     | UNITS    | UNITS    | UNITS    | UNITS    | UNITS        | UNITS    | UNITS        | UNITS    | UNITS    |
| <b>VOCs</b>                  |          |          |          |          |              |          |              |          |          |
| <b>SEMIVOLATILES</b>         |          |          |          |          |              |          |              |          |          |
| Phenol                       | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| bis(2-Chloroethyl) ether     | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2-Chlorophenol               | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 1,3-Dichlorobenzene          | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 1,4-Dichlorobenzene          | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Benzyl Alcohol               | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 1,2-Dichlorobenzene          | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2-Methylphenol               | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| bis(2-Chloroisopropyl) ether | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 4-Methylphenol               | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| N-Nitroso-d-n-propylamine    | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Hexachloroethane             | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Nitrobenzene                 | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Isophorone                   | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2-Nitrophenol                | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2,4-Dimethylphenol           | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Benzic acid                  | µg/Kg    | 3500 U   | 3500 U   | 3300 U   | 3400 U       | NS       | 3600 U       | NS       | 3500 U   |
| bis(2-Chloroethoxy) methane  | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2,4-Dichlorophenol           | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 1,2,4-Trichlorobenzene       | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Naphthalene                  | µg/Kg    | 720 U    | 730 U    | 690 U    | 270 J        | NS       | 210 J        | NS       | 360 J    |
| 4-Chloroaniline              | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Hexachlorobutadiene          | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 4-Chloro-3-methylphenol      | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2-Methylnaphthalene          | µg/Kg    | 720 U    | 730 U    | 690 U    | 280 J        | NS       | 730 U        | NS       | 240 J    |
| Hexachlorocyclopentadiene    | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2,4,6-Trichlorophenol        | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2,4,5-Trichlorophenol        | µg/Kg    | 3500 U   | 3500 U   | 3300 U   | 3400 U       | NS       | 3600 U       | NS       | 3500 U   |
| 2-Chloronaphthalene          | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2-Nitroaniline               | µg/Kg    | 3500 U   | 3500 U   | 3300 U   | 3400 U       | NS       | 3600 U       | NS       | 3500 U   |
| Dimethylphthalate            | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Acenaphthylene               | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2,6-Dinitrotoluene           | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 3-Nitroaniline               | µg/Kg    | 3500 U   | 3500 U   | 3300 U   | 3400 U       | NS       | 3600 U       | NS       | 3500 U   |
| Acenaphthene                 | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2,4-Dinitrophenol            | µg/Kg    | 3500 U   | 3500 U   | 3300 U   | 3400 U       | NS       | 3600 U       | NS       | 3500 U   |
| 4-Nitrophenol                | µg/Kg    | 3500 U   | 3500 U   | 3300 U   | 3400 U       | NS       | 3600 U       | NS       | 3500 U   |
| Dibenzofuran                 | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 2,4-Dinitrotoluene           | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Diethylphthalate             | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 4-Chlorophenyl-phenylether   | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Fluorene                     | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 4-Nitroaniline               | µg/Kg    | 3500 U   | 3500 U   | 3300 U   | 3400 U       | NS       | 3600 U       | NS       | 3500 U   |
| 4,6-Dinitro-2-methylphenol   | µg/Kg    | 3500 U   | 3500 U   | 3300 U   | 3400 U       | NS       | 3600 U       | NS       | 3500 U   |
| N-Nitrosodiphenylamine (1)   | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 4-Bromophenyl-phenylether    | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Hexachlorobenzene            | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Pentachlorophenol            | µg/Kg    | 3500 U   | 3500 U   | 3300 U   | 3400 U       | NS       | 3600 U       | NS       | 3500 U   |
| Phenanthrene                 | µg/Kg    | 720 U    | 730 U    | 690 U    | 170 J        | NS       | 82 J         | NS       | 720 U    |
| Anthracene                   | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Carbazole                    | µg/Kg    | NS       | NS       | NS       | NS           | NS       | NS           | NS       | NS       |
| Di-n-butylphthalate          | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Fluoranthene                 | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Pyrene                       | µg/Kg    | 720 U    | 730 U    | 690 U    | 130 J        | NS       | 730 U        | NS       | 720 U    |
| Butylbenzylphthalate         | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| 3,3'-Dichlorobenzidine       | µg/Kg    | 1400 U   | 1500 U   | 1400 U   | 1500 U       | NS       | 1500 U       | NS       | 1400 U   |
| Benzo(a)anthracene           | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Chrysene                     | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| bis(2-Ethylhexyl)phthalate   | µg/Kg    | 720 U    | 730 U    | 530 J    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Di-n-octylphthalate          | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Benzo(b)fluoranthene         | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Benzo(k)fluoranthene         | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Benzo(a)pyrene               | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Indeno(1,2,3-cd)pyrene       | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Dibenz(a,h)anthracene        | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |
| Benzo(g,h,i)perylene         | µg/Kg    | 720 U    | 730 U    | 690 U    | 710 U        | NS       | 730 U        | NS       | 720 U    |

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SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL     | SOIL     | SOIL     | SOIL     | SOIL         | SOIL     | SOIL         | SOIL     | SOIL     |
|------------------------|----------|----------|----------|----------|--------------|----------|--------------|----------|----------|
| DEPTH                  | B-1      | B-1      | B-1      | B-2      | B-2          | B-2      | B-2          | B-2      | B-2      |
| DATE                   | 10/30/91 | 10/30/91 | 10/30/91 | 10/31/91 | 10/31/91     | 10/31/91 | 10/31/91     | 10/31/91 | 10/31/91 |
| ES ID                  | S1030-1  | S1030-2  | S1030-3  | S1031-4  | S1031-4DL(5) | S1031-5  | S1031-5RE(4) | S1031-5  | S1031-8  |
| LAB ID                 | 147824   | 147825   | 147826   | 147827   | 147827       | 147826   | 147828       | 147828   | 147829   |
| COMPOUND               | UNITS    |          |          |          |              |          |              |          |          |
| <b>VOCs</b>            |          |          |          |          |              |          |              |          |          |
| <b>PESTICIDES/PCBs</b> |          |          |          |          |              |          |              |          |          |
| alpha-BHC              | µg/Kg    | 17 U     | 18 U     | 17 U     | 17 U         | NS       | 18 U         | NS       | 17 U     |
| beta-BHC               | µg/Kg    | 17 U     | 18 U     | 17 U     | 17 U         | NS       | 18 U         | NS       | 17 U     |
| delta-BHC              | µg/Kg    | 17 U     | 18 U     | 17 U     | 17 U         | NS       | 18 U         | NS       | 17 U     |
| gamma-BHC (Lindane)    | µg/Kg    | 17 U     | 18 U     | 17 U     | 17 U         | NS       | 18 U         | NS       | 17 U     |
| Heptachlor             | µg/Kg    | 17 U     | 18 U     | 17 U     | 17 U         | NS       | 18 U         | NS       | 17 U     |
| Aldrin                 | µg/Kg    | 17 U     | 18 U     | 17 U     | 17 U         | NS       | 18 U         | NS       | 17 U     |
| Heptachlor epoxide     | µg/Kg    | 17 U     | 18 U     | 17 U     | 17 U         | NS       | 18 U         | NS       | 17 U     |
| Endosulfan I           | µg/Kg    | 17 U     | 18 U     | 17 U     | 17 U         | NS       | 18 U         | NS       | 17 U     |
| Dieldrin               | µg/Kg    | 35 U     | 35 U     | 33 U     | 34 U         | NS       | 36 U         | NS       | 35 U     |
| 4,4'-DDE               | µg/Kg    | 35 U     | 35 U     | 33 U     | 34 U         | NS       | 36 U         | NS       | 35 U     |
| Endrin                 | µg/Kg    | 35 U     | 35 U     | 33 U     | 34 U         | NS       | 36 U         | NS       | 35 U     |
| Endosulfan II          | µg/Kg    | 35 U     | 35 U     | 33 U     | 34 U         | NS       | 36 U         | NS       | 35 U     |
| 4,4'-DDD               | µg/Kg    | 35 U     | 35 U     | 33 U     | 34 U         | NS       | 36 U         | NS       | 35 U     |
| Endosulfan sulfate     | µg/Kg    | 35 U     | 35 U     | 33 U     | 34 U         | NS       | 36 U         | NS       | 35 U     |
| 4,4'-DDT               | µg/Kg    | 35 U     | 35 U     | 33 U     | 34 U         | NS       | 36 U         | NS       | 35 U     |
| Methoxychlor           | µg/Kg    | 170 U    | 180 U    | 170 U    | 170 U        | NS       | 180 U        | NS       | 170 U    |
| Endrin ketone          | µg/Kg    | 35 U     | 35 U     | 33 U     | 34 U         | NS       | 36 U         | NS       | 35 U     |
| Endrin aldehyde        | µg/Kg    | NS       | NS       | NS       | NS           | NS       | NS           | NS       | NS       |
| alpha-Chlordane        | µg/Kg    | 170 U    | 180 U    | 170 U    | 170 U        | NS       | 180 U        | NS       | 170 U    |
| gamma-Chlordane        | µg/Kg    | 170 U    | 180 U    | 170 U    | 170 U        | NS       | 180 U        | NS       | 170 U    |
| Toxaphene              | µg/Kg    | 350 U    | 350 U    | 330 U    | 340 U        | NS       | 360 U        | NS       | 350 U    |
| Aroclor-1016           | µg/Kg    | 170 U    | 180 U    | 170 U    | 170 U        | NS       | 180 U        | NS       | 170 U    |
| Aroclor-1221           | µg/Kg    | 170 U    | 180 U    | 170 U    | 170 U        | NS       | 180 U        | NS       | 170 U    |
| Aroclor-1232           | µg/Kg    | 170 U    | 180 U    | 170 U    | 170 U        | NS       | 180 U        | NS       | 170 U    |
| Aroclor-1242           | µg/Kg    | 170 U    | 180 U    | 170 U    | 170 U        | NS       | 180 U        | NS       | 170 U    |
| Aroclor-1248           | µg/Kg    | 170 U    | 180 U    | 170 U    | 170 U        | NS       | 180 U        | NS       | 170 U    |
| Aroclor-1254           | µg/Kg    | 350 U    | 350 U    | 330 U    | 340 U        | NS       | 360 U        | NS       | 350 U    |
| Aroclor-1260           | µg/Kg    | 350 U    | 350 U    | 330 U    | 340          | NS       | 190 J        | NS       | 390      |
| <b>HERBICIDES</b>      |          |          |          |          |              |          |              |          |          |
| 2,4-D                  | µg/Kg    | 54 U J   | 55 U J   | 53 U J   | 54 U J       | NS       | 56 U J       | NS       | 55 U J   |
| 2,4-DB                 | µg/Kg    | 54 U J   | 350 J    | 53 U J   | 250 J        | NS       | 56 U J       | NS       | 55 U J   |
| 2,4,5-T                | µg/Kg    | 5.4 U J  | 5.5 U J  | 5.3 U J  | 5.4 U J      | NS       | 5.6 U J      | NS       | 5.5 U J  |
| 2,4,5-TP (Silvex)      | µg/Kg    | 5.4 U J  | 5.5 U J  | 5.3 U J  | 5.4 U J      | NS       | 5.6 U J      | NS       | 5.5 U J  |
| Dalapon                | µg/Kg    | 130 U J  | 130 U J  | 130 U J  | 130 U J      | NS       | 130 U J      | NS       | 130 U J  |
| Dicamba                | µg/Kg    | 5.4 U J  | 5.5 U J  | 5.3 U J  | 5.4 U J      | NS       | 5.6 U J      | NS       | 5.5 U J  |
| Dichloroprop           | µg/Kg    | 54 U J   | 55 U J   | 53 U J   | 54 U J       | NS       | 56 U J       | NS       | 55 U J   |
| Dinoseb                | µg/Kg    | 27 U J   | 27 U J   | 26 U J   | 27 U J       | NS       | 26 U J       | NS       | 27 U J   |
| MCPA                   | µg/Kg    | 5400 U J | 5500 U J | 5300 U J | 5400 U J     | NS       | 5600 U J     | NS       | 5500 U J |
| MCPP                   | µg/Kg    | 5400 U J | 5500 U J | 5300 U J | 5400 U J     | NS       | 5600 U J     | NS       | 5500 U J |
| <b>METALS</b>          |          |          |          |          |              |          |              |          |          |
| Aluminum               | mg/kg    | 17600    | 17600    | 13200    | 15800        | NS       | 17400        | NS       | 18100    |
| Antimony               | mg/kg    | 10 U J   | 9.5 U J  | 8 U J    | 11.1 U J     | NS       | 7.9 U J      | NS       | 8.1 U J  |
| Arsenic                | mg/kg    | 6.1      | 4.4      | 3.7      | 4.9          | NS       | 4.1          | NS       | 4        |
| Barium                 | mg/kg    | 102      | 64.8     | 42.2     | 58           | NS       | 72.3         | NS       | 58.7     |
| Beryllium              | mg/kg    | 0.9 J    | 0.93     | 0.67 J   | 0.84 J       | NS       | 0.79         | NS       | 0.83     |
| Cadmium                | mg/kg    | 2.4      | 2.8      | 1.9      | 2.3          | NS       | 2.3          | NS       | 2.9      |
| Calcium                | mg/kg    | 22900    | 55200    | 71000    | 31500        | NS       | 32500        | NS       | 22300    |
| Chromium               | mg/kg    | 27.8     | 27.5     | 22       | 26.1         | NS       | 27.8         | NS       | 28.4     |
| Cobalt                 | mg/kg    | 12.7     | 11.7     | 11.9     | 12.1         | NS       | 11.3         | NS       | 14.6     |
| Copper                 | mg/kg    | 36.3 J   | 21.9 J   | 13.9 J   | 33.1 J       | NS       | 24.7 J       | NS       | 18.9 J   |
| Iron                   | mg/kg    | 37500    | 34400    | 27800    | 35000        | NS       | 32900        | NS       | 36500    |
| Lead                   | mg/kg    | 26.7     | 7.5      | 6.9      | 52.4         | NS       | 23           | NS       | 11.9 J   |
| Magnesium              | mg/kg    | 6870     | 7690     | 6900     | 7510         | NS       | 8440         | NS       | 8130     |
| Manganese              | mg/kg    | 748      | 943      | 802      | 403          | NS       | 673          | NS       | 505      |
| Mercury                | mg/kg    | 0.06 J   | 0.04 U   | 0.04 U   | 0.04 J       | NS       | 0.06 J       | NS       | 0.04 U   |
| Nickel                 | mg/kg    | 44.8     | 42.4     | 33.3     | 43.1         | NS       | 40.3         | NS       | 46.9     |
| Potassium              | mg/kg    | 2420     | 1810     | 1410     | 1950         | NS       | 2280         | NS       | 2150     |
| Selenium               | mg/kg    | 0.93 U   | 0.59 U   | 0.9 U    | 0.21 U       | NS       | 0.17 U       | NS       | 0.18 U   |
| Silver                 | mg/kg    | 1.5 U    | 1.4 U    | 1.2 U    | 1.7 U        | NS       | 1.2 U        | NS       | 1.2 U    |
| Sodium                 | mg/kg    | 424 J    | 72.8 U J | 151 J    | 84.9 U J     | NS       | 60.4 U J     | NS       | 62.2 U J |
| Thallium               | mg/kg    | 0.52 U   | 0.33 U   | 0.5 U    | 0.6 U        | NS       | 0.48 U       | NS       | 0.5 U    |
| Vanadium               | mg/kg    | 23.9     | 22.8     | 15.8     | 17.8         | NS       | 22.1         | NS       | 20.3     |
| Zinc                   | mg/kg    | 104      | 77.6     | 60.2     | 58.6         | NS       | 85.5         | NS       | 88.1     |
| Cyanide                | mg/kg    | 0.8 U    | 0.6 U    | 0.59 U   | 0.62 U       | NS       | 0.67 U       | NS       | 0.66 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL         | SOIL     | SOIL         | SOIL     | SOIL         | SOIL     | SOIL     | SOIL     |
|----------------------------|----------|--------------|----------|--------------|----------|--------------|----------|----------|----------|
|                            | LOCATION | B-2          | B-2      | B-2          | B-3      | B-3          | B-3      | B-3      | B-3      |
|                            | DEPTH    | 6-8          | 8-10     | 8-10         | 0-2      | 0-2          | 2-4      | 4-6      | 6-8      |
|                            | DATE     | 10/31/91     | 10/31/91 | 10/31/91     | 10/31/91 | 10/31/91     | 10/31/91 | 10/31/91 | 10/31/91 |
|                            | ES ID    | S1031-6DL(5) | S1031-7  | S1031-7DL(5) | S1031-8  | S1031-8RE(4) | S1031-9  | S1031-10 | S1031-11 |
|                            | LAB ID   | 147829       | 147830   | 147830       | 147831   | 147831       | 147832   | 147833   | 147834   |
|                            | UNITS    |              |          |              |          |              |          |          |          |
| VOCs                       |          |              |          |              |          |              |          |          |          |
| Chloromethane              | µg/Kg    | 6200 U R     | 2800 U   | 5500 U R     | 13 U J   | 13 U J       | 12 U     | 11 U     | 10 U J   |
| Bromomethane               | µg/Kg    | 6200 U R     | 2800 U   | 5500 U R     | 13 U J   | 13 U J       | 12 U     | 11 U     | 10 U J   |
| Vinyl Chloride             | µg/Kg    | 6200 U R     | 2800 U   | 5500 U R     | 13 U J   | 13 U J       | 12 U     | 11 U     | 10 U J   |
| Chloroethane               | µg/Kg    | 6200 U R     | 2800 U   | 5500 U R     | 13 U J   | 13 U J       | 12 U     | 11 U     | 10 U J   |
| Methylene Chloride         | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Acetone                    | µg/Kg    | 6200 U R     | 2800 U   | 5500 U R     | 13 U J   | 13 U J       | 12 U     | 11 U     | 10 U J   |
| Carbon Disulfide           | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| 1,1-Dichloroethane         | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| 1,1-Dichloroethane         | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| 1,2-Dichloroethane (total) | µg/Kg    | 20000 U R    | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Chloroform                 | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| 1,2-Dichloroethane         | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| 2-Butanone                 | µg/Kg    | 6200 U R     | 2800 U   | 5500 U R     | 13 U J   | 13 U J       | 12 U     | 11 U     | 10 U J   |
| 1,1,1-Trichloroethane      | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Carbon Tetrachloride       | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Vinyl Acetate              | µg/Kg    | 6200 U R     | 2800 U   | 5500 U R     | 13 U J   | 13 U J       | 12 U     | 11 U     | 10 U J   |
| Bromodichloromethane       | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| 1,2-Dichloropropane        | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| cis-1,3-Dichloropropene    | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Trichloroethene            | µg/Kg    | 120000       | 83000 R  | 69000        | 23 J     | 11 J         | 6 U      | 6 U      | 5 J      |
| Dibromochloromethane       | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| 1,1,2-Trichloroethane      | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Benzene                    | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| trans-1,3-Dichloropropene  | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Bromoform                  | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| 4-Methyl-2-Pentanone       | µg/Kg    | 6200 U R     | 2800 U   | 5500 U R     | 13 U J   | 13 U J       | 12 U     | 11 U     | 10 U J   |
| 2-Hexanone                 | µg/Kg    | 6200 U R     | 2800 U   | 5500 U R     | 13 U J   | 13 U J       | 12 U     | 11 U     | 10 U J   |
| Tetrachloroethene          | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Toluene                    | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 4 J      | 3 J          | 2 J      | 1 J      | 4 J      |
| Chlorobenzene              | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Ethylbenzene               | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Styrene                    | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |
| Xylene (total)             | µg/Kg    | 3100 U R     | 1400 U   | 2800 U R     | 6 U J    | 6 U J        | 6 U      | 6 U      | 5 U J    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL         | SOIL     | SOIL         | SOIL     | SOIL         | SOIL     | SOIL     | SOIL     | SOIL     |
|------------------------------|--------------|----------|--------------|----------|--------------|----------|----------|----------|----------|
| DEPTH                        | B-2          | B-2      | B-2          | B-3      | B-3          | B-3      | B-3      | B-3      | B-3      |
| DATE                         | 6-8          | 6-10     | 6-10         | 0-2      | 0-2          | 0-2      | 2-4      | 4-6      | 6-8      |
| ES ID                        | 10/31/91     | 10/31/91 | 10/31/91     | 10/31/91 | 10/31/91     | 10/31/91 | 10/31/91 | 10/31/91 | 10/31/91 |
| LAB ID                       | S1031-6DL(5) | S1031-7  | S1031-7DL(5) | S1031-6  | S1031-8RE(4) | S1031-9  | S1031-10 | S1031-11 | S1031-11 |
| UNITS                        | 147829       | 147830   | 147830       | 147831   | 147831       | 147832   | 147833   | 147834   | 147834   |
| COMPOUND                     |              |          |              |          |              |          |          |          |          |
| VOCs                         |              |          |              |          |              |          |          |          |          |
| SEMIVOLATILES                |              |          |              |          |              |          |          |          |          |
| Phenol                       | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| bis(2-Chloroethyl) ether     | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2-Chlorophenol               | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 1,3-Dichlorobenzene          | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 1,4-Dichlorobenzene          | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Benzyl Alcohol               | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 1,2-Dichlorobenzene          | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2-Methylphenol               | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| bis(2-Chloroisopropyl) ether | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 4-Methylphenol               | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| N-Nitroso-di-n-propylamine   | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Hexachloroethane             | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Nitrobenzene                 | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Isophorone                   | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2-Nitrophenol                | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2,4-Dimethylphenol           | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Benzoic acid                 | µg/Kg        | NS       | NS           | NS       | 4300 U       | NS       | NS       | 3500 U   | NS       |
| bis(2-Chloroethoxy) methane  | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2,4-Dichlorophenol           | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 1,2,4-Trichlorobenzene       | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Naphthalene                  | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 4-Chloroaniline              | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Hexachlorobutadiene          | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 4-Chloro-3-methylphenol      | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2-Methylnaphthalene          | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Hexachlorocyclopentadiene    | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2,4,6-Trichlorophenol        | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2,4,5-Trichlorophenol        | µg/Kg        | NS       | NS           | NS       | 4300 U       | NS       | NS       | 3500 U   | NS       |
| 2-Chloronaphthalene          | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2-Nitroaniline               | µg/Kg        | NS       | NS           | NS       | 4300 U       | NS       | NS       | 3500 U   | NS       |
| Dimethylphthalate            | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Acenaphthylene               | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2,6-Dinitrotoluene           | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 3-Nitroaniline               | µg/Kg        | NS       | NS           | NS       | 4300 U       | NS       | NS       | 3500 U   | NS       |
| Acenaphthene                 | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2,4-Dinitrophenol            | µg/Kg        | NS       | NS           | NS       | 4300 U       | NS       | NS       | 3500 U   | NS       |
| 4-Nitrophenol                | µg/Kg        | NS       | NS           | NS       | 4300 U       | NS       | NS       | 3500 U   | NS       |
| Dibenzofuran                 | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 2,4-Dinitrotoluene           | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Diethylphthalate             | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 4-Chlorophenyl-phenylether   | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Fluorene                     | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 4-Nitroaniline               | µg/Kg        | NS       | NS           | NS       | 4300 U       | NS       | NS       | 3500 U   | NS       |
| 4,6-Dinitro-2-methylphenol   | µg/Kg        | NS       | NS           | NS       | 4300 U       | NS       | NS       | 3500 U   | NS       |
| N-Nitrosodiphenylamine (1)   | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 4-Bromophenyl-phenylether    | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Hexachlorobenzene            | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Pentachlorophenol            | µg/Kg        | NS       | NS           | NS       | 4300 U       | NS       | NS       | 3500 U   | NS       |
| Phenanthrene                 | µg/Kg        | NS       | NS           | NS       | 420 J        | NS       | NS       | 730 U    | NS       |
| Anthracene                   | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Carbazole                    | µg/Kg        | NS       | NS           | NS       | NS           | NS       | NS       | NS       | NS       |
| Di-n-butylphthalate          | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Fluoranthene                 | µg/Kg        | NS       | NS           | NS       | 750 J        | NS       | NS       | 730 U    | NS       |
| Pyrene                       | µg/Kg        | NS       | NS           | NS       | 550 J        | NS       | NS       | 730 U    | NS       |
| Butylbenzylphthalate         | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| 3,3'-Dichlorobenzidine       | µg/Kg        | NS       | NS           | NS       | 1800 U       | NS       | NS       | 1500 U   | NS       |
| Benzo(a)anthracene           | µg/Kg        | NS       | NS           | NS       | 290 J        | NS       | NS       | 730 U    | NS       |
| Chrysene                     | µg/Kg        | NS       | NS           | NS       | 350 J        | NS       | NS       | 730 U    | NS       |
| bis(2-Ethylhexyl)phthalate   | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Di-n-octylphthalate          | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Benzo(b)fluoranthene         | µg/Kg        | NS       | NS           | NS       | 220 J        | NS       | NS       | 730 U    | NS       |
| Benzo(k)fluoranthene         | µg/Kg        | NS       | NS           | NS       | 180 J        | NS       | NS       | 730 U    | NS       |
| Benzo(a)pyrene               | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Indeno(1,2,3-cd)pyrene       | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Dibenz(a,h)anthracene        | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |
| Benzo(g,h,i)perylene         | µg/Kg        | NS       | NS           | NS       | 890 U        | NS       | NS       | 730 U    | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | MATRIX LOCATION | SOIL         | SOIL    | SOIL         | SOIL     | SOIL          | SOIL    | SOIL     | SOIL     |
|------------------------|-----------------|--------------|---------|--------------|----------|---------------|---------|----------|----------|
|                        |                 | B-2          | B-2     | B-2          | B-3      | B-3           | B-3     | B-3      | B-3      |
|                        | DEPTH           | DATE         | DATE    | DATE         | DATE     | DATE          | DATE    | DATE     | DATE     |
|                        | ES ID           | S1031-8DL(5) | S1031-7 | S1031-7DL(5) | S1031-8  | S1031-8FRE(4) | S1031-9 | S1031-10 | S1031-11 |
|                        | LAB ID          | 147829       | 147830  | 147830       | 147831   | 147831        | 147832  | 147833   | 147834   |
| UNITS                  |                 |              |         |              |          |               |         |          |          |
| <b>VOCs</b>            |                 |              |         |              |          |               |         |          |          |
| <b>PESTICIDES/PCBs</b> |                 |              |         |              |          |               |         |          |          |
| alpha-BHC              | µg/Kg           | NS           | NS      | NS           | 22 U     | NS            | NS      | 18 U     | NS       |
| beta-BHC               | µg/Kg           | NS           | NS      | NS           | 22 U     | NS            | NS      | 18 U     | NS       |
| delta-BHC              | µg/Kg           | NS           | NS      | NS           | 22 U     | NS            | NS      | 18 U     | NS       |
| gamma-BHC (Lindane)    | µg/Kg           | NS           | NS      | NS           | 22 U     | NS            | NS      | 18 U     | NS       |
| Heptachlor             | µg/Kg           | NS           | NS      | NS           | 22 U     | NS            | NS      | 18 U     | NS       |
| Aldrin                 | µg/Kg           | NS           | NS      | NS           | 22 U     | NS            | NS      | 18 U     | NS       |
| Heptachlor epoxide     | µg/Kg           | NS           | NS      | NS           | 22 U     | NS            | NS      | 18 U     | NS       |
| Endosulfan I           | µg/Kg           | NS           | NS      | NS           | 22 U     | NS            | NS      | 18 U     | NS       |
| Dieldrin               | µg/Kg           | NS           | NS      | NS           | 43 U     | NS            | NS      | 35 U     | NS       |
| 4,4'-DDE               | µg/Kg           | NS           | NS      | NS           | 43 U     | NS            | NS      | 35 U     | NS       |
| Endrin                 | µg/Kg           | NS           | NS      | NS           | 43 U     | NS            | NS      | 35 U     | NS       |
| Endosulfan II          | µg/Kg           | NS           | NS      | NS           | 43 U     | NS            | NS      | 35 U     | NS       |
| 4,4'-DDD               | µg/Kg           | NS           | NS      | NS           | 43 U     | NS            | NS      | 35 U     | NS       |
| Endosulfan sulfate     | µg/Kg           | NS           | NS      | NS           | 43 U     | NS            | NS      | 35 U     | NS       |
| 4,4'-DDT               | µg/Kg           | NS           | NS      | NS           | 43 U     | NS            | NS      | 35 U     | NS       |
| Methoxychlor           | µg/Kg           | NS           | NS      | NS           | 220 U    | NS            | NS      | 180 U    | NS       |
| Endrin ketone          | µg/Kg           | NS           | NS      | NS           | 43 U     | NS            | NS      | 35 U     | NS       |
| Endrin aldehyde        | µg/Kg           | NS           | NS      | NS           | NS       | NS            | NS      | NS       | NS       |
| alpha-Chlordane        | µg/Kg           | NS           | NS      | NS           | 220 U    | NS            | NS      | 180 U    | NS       |
| gamma-Chlordane        | µg/Kg           | NS           | NS      | NS           | 220 U    | NS            | NS      | 180 U    | NS       |
| Toxaphene              | µg/Kg           | NS           | NS      | NS           | 430 U    | NS            | NS      | 350 U    | NS       |
| Aroclor-1016           | µg/Kg           | NS           | NS      | NS           | 220 U    | NS            | NS      | 180 U    | NS       |
| Aroclor-1221           | µg/Kg           | NS           | NS      | NS           | 220 U    | NS            | NS      | 180 U    | NS       |
| Aroclor-1232           | µg/Kg           | NS           | NS      | NS           | 220 U    | NS            | NS      | 180 U    | NS       |
| Aroclor-1242           | µg/Kg           | NS           | NS      | NS           | 220 U    | NS            | NS      | 180 U    | NS       |
| Aroclor-1248           | µg/Kg           | NS           | NS      | NS           | 220 U    | NS            | NS      | 180 U    | NS       |
| Aroclor-1254           | µg/Kg           | NS           | NS      | NS           | 430 U    | NS            | NS      | 350 U    | NS       |
| Aroclor-1260           | µg/Kg           | NS           | NS      | NS           | 430 U    | NS            | NS      | 350 U    | NS       |
| <b>HERBICIDES</b>      |                 |              |         |              |          |               |         |          |          |
| 2,4-D                  | µg/Kg           | NS           | NS      | NS           | 68 U J   | NS            | NS      | 56 U J   | NS       |
| 2,4-DB                 | µg/Kg           | NS           | NS      | NS           | 68 U J   | NS            | NS      | 100 U J  | NS       |
| 2,4,5-T                | µg/Kg           | NS           | NS      | NS           | 6.8 U J  | NS            | NS      | 5.6 U J  | NS       |
| 2,4,5-TP (Silvex)      | µg/Kg           | NS           | NS      | NS           | 6.8 U J  | NS            | NS      | 5.6 U J  | NS       |
| Dalapon                | µg/Kg           | NS           | NS      | NS           | 160 U J  | NS            | NS      | 130 U J  | NS       |
| Dicamba                | µg/Kg           | NS           | NS      | NS           | 6.8 U J  | NS            | NS      | 5.8 U J  | NS       |
| Dichloroprop           | µg/Kg           | NS           | NS      | NS           | 68 U J   | NS            | NS      | 56 U J   | NS       |
| Dinoseb                | µg/Kg           | NS           | NS      | NS           | 34 U J   | NS            | NS      | 28 U J   | NS       |
| MCPA                   | µg/Kg           | NS           | NS      | NS           | 6800 U J | NS            | NS      | 5800 U J | NS       |
| MCPP                   | µg/Kg           | NS           | NS      | NS           | 7500 U J | NS            | NS      | 5600 U J | NS       |
| <b>METALS</b>          |                 |              |         |              |          |               |         |          |          |
| Aluminum               | mg/kg           | NS           | NS      | NS           | 11700    | NS            | NS      | 15100    | NS       |
| Antimony               | mg/kg           | NS           | NS      | NS           | 78.3 J   | NS            | NS      | 6.5 U J  | NS       |
| Arsenic                | mg/kg           | NS           | NS      | NS           | 68.3     | NS            | NS      | 3.8      | NS       |
| Barium                 | mg/kg           | NS           | NS      | NS           | 1010     | NS            | NS      | 56.9     | NS       |
| Beryllium              | mg/kg           | NS           | NS      | NS           | 0.78 U   | NS            | NS      | 0.69     | NS       |
| Cadmium                | mg/kg           | NS           | NS      | NS           | 43.1     | NS            | NS      | 2.2      | NS       |
| Calcium                | mg/kg           | NS           | NS      | NS           | 15800    | NS            | NS      | 65800    | NS       |
| Chromium               | mg/kg           | NS           | NS      | NS           | 57.9     | NS            | NS      | 22.5     | NS       |
| Cobalt                 | mg/kg           | NS           | NS      | NS           | 13.8     | NS            | NS      | 1.1      | NS       |
| Copper                 | mg/kg           | NS           | NS      | NS           | 838      | NS            | NS      | 14.8 J   | NS       |
| Iron                   | mg/kg           | NS           | NS      | NS           | 55600    | NS            | NS      | 30000    | NS       |
| Lead                   | mg/kg           | NS           | NS      | NS           | 1630     | NS            | NS      | 8.4      | NS       |
| Magnesium              | mg/kg           | NS           | NS      | NS           | 3930     | NS            | NS      | 8120     | NS       |
| Manganese              | mg/kg           | NS           | NS      | NS           | 615      | NS            | NS      | 547      | NS       |
| Mercury                | mg/kg           | NS           | NS      | NS           | 0.86     | NS            | NS      | 0.04 U   | NS       |
| Nickel                 | mg/kg           | NS           | NS      | NS           | 65.4     | NS            | NS      | 34.5     | NS       |
| Potassium              | mg/kg           | NS           | NS      | NS           | 1380     | NS            | NS      | 1490     | NS       |
| Selenium               | mg/kg           | NS           | NS      | NS           | 1.1 U    | NS            | NS      | 0.17 U   | NS       |
| Silver                 | mg/kg           | NS           | NS      | NS           | 1.8 U    | NS            | NS      | 0.98 U   | NS       |
| Sodium                 | mg/kg           | NS           | NS      | NS           | 143 J    | NS            | NS      | 79.1 J   | NS       |
| Thallium               | mg/kg           | NS           | NS      | NS           | 0.59 U   | NS            | NS      | 0.47 U   | NS       |
| Vanadium               | mg/kg           | NS           | NS      | NS           | 18.1     | NS            | NS      | 17.6     | NS       |
| Zinc                   | mg/kg           | NS           | NS      | NS           | 55700    | NS            | NS      | 213      | NS       |
| Cyanide                | mg/kg           | NS           | NS      | NS           | 1.6      | NS            | NS      | 0.66 U   | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION | SOIL           | SOIL     | SOIL     | SOIL     | SOIL     | SOIL           | SOIL     | SOIL     |  |
|----------------------------|-----------------|----------------|----------|----------|----------|----------|----------------|----------|----------|--|
|                            |                 | B-3            | B-4      | B-4      | B-4      | B-5      | B-5            | B-5      | B-5      |  |
|                            | DEPTH           | DATE           | DATE     | DATE     | DATE     | DATE     | DATE           | DATE     | DATE     |  |
|                            | ES ID           | S1031-11RE (4) | S1101-12 | S1101-13 | S1101-14 | S1101-15 | S1101-15RE (4) | S1101-16 | S1101-17 |  |
|                            | LAB ID          | 147834         | 147885   | 147886   | 147887   | 147888   | 147888         | 147889   | 147890   |  |
|                            | UNITS           |                |          |          |          |          |                |          |          |  |
| <b>VOCs</b>                |                 |                |          |          |          |          |                |          |          |  |
| Chloromethane              | µg/Kg           | 10 U           | 13 U     | 11 U     | 11 U     | 15 U J   | 14 U J         | 11 U     | 11 U     |  |
| Bromomethane               | µg/Kg           | 10 U           | 13 U     | 11 U     | 11 U     | 15 U J   | 14 U J         | 11 U     | 11 U     |  |
| Vinyl Chloride             | µg/Kg           | 10 U           | 13 U     | 11 U     | 11 U     | 15 U J   | 14 U J         | 11 U     | 11 U     |  |
| Chloroethane               | µg/Kg           | 10 U           | 13 U     | 11 U     | 11 U     | 15 U J   | 14 U J         | 11 U     | 11 U     |  |
| Methylene Chloride         | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Acetone                    | µg/Kg           | 12 U           | 13 U     | 11 U     | 11 U     | 15 U J   | 18 U J         | 11 U     | 11 U     |  |
| Carbon Disulfide           | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| 1,1-Dichloroethene         | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| 1,1-Dichloroethane         | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| 1,2-Dichloroethene (total) | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Chloroform                 | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| 1,2-Dichloroethane         | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| 2-Butanone                 | µg/Kg           | 10 U           | 13 U     | 11 U     | 11 U     | 15 U J   | 14 U J         | 11 U     | 11 U     |  |
| 1,1,1-Trichloroethane      | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Carbon Tetrachloride       | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Vinyl Acetate              | µg/Kg           | 10 U           | 13 U     | 11 U     | 11 U     | 15 U J   | 14 U J         | 11 U     | 11 U     |  |
| Bromodichloromethane       | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| 1,2-Dichloropropane        | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| cis-1,3-Dichloropropene    | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Trichloroethene            | µg/Kg           | 4 J            | 130      | 6 U      | 2 J      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Dibromochloromethane       | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| 1,1,2-Trichloroethane      | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Benzene                    | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| trans-1,3-Dichloropropene  | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Bromoform                  | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| 4-Methyl-2-Pentanone       | µg/Kg           | 10 U           | 13 U     | 11 U     | 11 U     | 15 U J   | 14 U J         | 11 U     | 11 U     |  |
| 2-Hexanone                 | µg/Kg           | 10 U           | 13 U     | 11 U     | 11 U     | 15 U J   | 14 U J         | 11 U     | 11 U     |  |
| Tetrachloroethene          | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Toluene                    | µg/Kg           | 3 J            | 6 U      | 2 J      | 2 J      | 3 J      | 9 J            | 1 J      | 2 J      |  |
| Chlorobenzene              | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Ethylbenzene               | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Styrene                    | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |
| Xylene (total)             | µg/Kg           | 5 U            | 6 U      | 6 U      | 5 U      | 7 U J    | 7 U J          | 5 U      | 6 U      |  |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL           | SOIL     | SOIL     | SOIL     | SOIL     | SOIL           | SOIL     | SOIL     | SOIL     |
|------------------------------|----------------|----------|----------|----------|----------|----------------|----------|----------|----------|
| DEPTH                        | B-3            | B-4      | B-4      | B-4      | B-4      | B-5            | B-5      | B-5      | B-5      |
| DATE                         | 6-8            | 0-2      | 2-4      | 4-6      | 0-2      | 0-2            | 2-4      | 4-6      | 4-6      |
| ES ID                        | 10/31/91       | 11/01/91 | 11/01/91 | 11/01/91 | 11/01/91 | 11/01/91       | 11/01/91 | 11/01/91 | 11/01/91 |
| LAB ID                       | S1031-11RE (4) | S1101-12 | S1101-13 | S1101-14 | S1101-15 | S1101-15RE (4) | S1101-16 | S1101-17 | S1101-18 |
| UNITS                        | 147834         | 147885   | 147886   | 147887   | 147888   | 147888         | 147888   | 147889   | 147890   |
| COMPOUND                     |                |          |          |          |          |                |          |          |          |
| VOCs                         |                |          |          |          |          |                |          |          |          |
| SEMIVOLATILES                |                |          |          |          |          |                |          |          |          |
| Phenol                       | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| bis(2-Chloroethyl) ether     | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 2-Chlorophenol               | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 1,3-Dichlorobenzene          | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 1,4-Dichlorobenzene          | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Benzyl Alcohol               | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 1,2-Dichlorobenzene          | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 2-Methylphenol               | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| bis(2-Chloroisopropyl) ether | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 4-Methylphenol               | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| N-Nitroso-d-n-propylamine    | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Hexachloroethane             | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Nitrobenzene                 | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Isophorone                   | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 2-Nitrophenol                | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 2,4-Dimethylphenol           | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Benzoic acid                 | µg/Kg          | NS       | 6300 U   | 3500 U   | 3400 U   | 4100 U         | NS       | 3500 U   | 3700 U   |
| bis(2-Chloroethoxy) methane  | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 2,4-Dichlorophenol           | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 1,2,4-Trichlorobenzene       | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Naphthalene                  | µg/Kg          | NS       | 2400     | 720 U    | 710 U    | 210 J          | NS       | 730 U    | 760 U    |
| 4-Chloroaniline              | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Hexachlorobutadiene          | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 4-Chloro-3-methylphenol      | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 2-Methylnaphthalene          | µg/Kg          | NS       | 610 J    | 720 U    | 710 U    | 120 J          | NS       | 730 U    | 760 U    |
| Hexachlorocyclopentadiene    | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 2,4,6-Trichlorophenol        | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 2,4,5-Trichlorophenol        | µg/Kg          | NS       | 6300 U   | 3500 U   | 3400 U   | 4100 U         | NS       | 3500 U   | 3700 U   |
| 2-Chloronaphthalene          | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 2-Nitroaniline               | µg/Kg          | NS       | 6300 U   | 3500 U   | 3400 U   | 4100 U         | NS       | 3500 U   | 3700 U   |
| Dimethylphthalate            | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Acenaphthylene               | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 310 J          | NS       | 730 U    | 760 U    |
| 2,6-Dinitrotoluene           | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 3-Nitroaniline               | µg/Kg          | NS       | 6300 U   | 3500 U   | 3400 U   | 4100 U         | NS       | 3500 U   | 3700 U   |
| Acenaphthene                 | µg/Kg          | NS       | 2200     | 720 U    | 710 U    | 190 J          | NS       | 730 U    | 760 U    |
| 2,4-Dinitrophenol            | µg/Kg          | NS       | 6300 U   | 3500 U   | 3400 U   | 4100 U         | NS       | 3500 U   | 3700 U   |
| 4-Nitrophenol                | µg/Kg          | NS       | 6300 U   | 3500 U   | 3400 U   | 4100 U         | NS       | 3500 U   | 3700 U   |
| Dibenzofuran                 | µg/Kg          | NS       | 1400     | 720 U    | 710 U    | 160 J          | NS       | 730 U    | 760 U    |
| 2,4-Dinitrotoluene           | µg/Kg          | NS       | 2000     | 720 U    | 710 U    | 320 J          | NS       | 730 U    | 760 U    |
| Diethylphthalate             | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 4-Chlorophenyl-phenyl ether  | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Fluorene                     | µg/Kg          | NS       | 2000     | 720 U    | 710 U    | 310 J          | NS       | 730 U    | 760 U    |
| 4-Nitroaniline               | µg/Kg          | NS       | 6300 U   | 3500 U   | 3400 U   | 4100 U         | NS       | 3500 U   | 3700 U   |
| 4,6-Dinitro-2-methylphenol   | µg/Kg          | NS       | 6300 U   | 3500 U   | 3400 U   | 4100 U         | NS       | 3500 U   | 3700 U   |
| N-Nitrosodiphenylamine (1)   | µg/Kg          | NS       | 450 J    | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 4-Bromophenyl-phenyl ether   | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Hexachlorobenzene            | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Pentachlorophenol            | µg/Kg          | NS       | 6300 U   | 3500 U   | 3400 U   | 4100 U         | NS       | 3500 U   | 3700 U   |
| Phenanthrene                 | µg/Kg          | NS       | 13000    | 130 J    | 120 J    | 3900           | NS       | 730 U    | 760 U    |
| Anthracene                   | µg/Kg          | NS       | 4200     | 720 U    | 710 U    | 790 J          | NS       | 730 U    | 760 U    |
| Carbazole                    | µg/Kg          | NS       | NS       | NS       | NS       | NS             | NS       | NS       | NS       |
| Di-n-butylphthalate          | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Fluoranthene                 | µg/Kg          | NS       | 14000    | 160 J    | 150 J    | 6200           | NS       | 73 J     | 89 J     |
| Pyrene                       | µg/Kg          | NS       | 12000    | 140 J    | 120 J    | 5100           | NS       | 69 J     | 73 J     |
| Butylbenzyl phthalate        | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| 3,3'-Dichlorobenzidine       | µg/Kg          | NS       | 2600 U   | 1400 U   | 1400 U   | 1700 U         | NS       | 1500 U   | 1500 U   |
| Benzo(a)anthracene           | µg/Kg          | NS       | 8800     | 110 J    | 86 J     | 3000           | NS       | 730 U    | 75 J     |
| Chrysene                     | µg/Kg          | NS       | 8000     | 110 J    | 90 J     | 3100           | NS       | 730 U    | 78 J     |
| bis(2-Ethylhexyl)phthalate   | µg/Kg          | NS       | 160 J    | 720 U    | 710 U    | 840 U          | NS       | 3600     | 760 U    |
| Di-n-octylphthalate          | µg/Kg          | NS       | 1300 U   | 720 U    | 710 U    | 840 U          | NS       | 730 U    | 760 U    |
| Benzo(b)fluoranthene         | µg/Kg          | NS       | 8800     | 91 J     | 710 U    | 2600           | NS       | 730 U    | 74 J     |
| Benzo(k)fluoranthene         | µg/Kg          | NS       | 6700     | 85 J     | 710 U    | 2300           | NS       | 730 U    | 70 J     |
| Benzo(a)pyrene               | µg/Kg          | NS       | 9000     | 110 J    | 78 J     | 2100           | NS       | 730 U    | 81 J     |
| Indeno(1,2,3-cd)pyrene       | µg/Kg          | NS       | 4800     | 720 U    | 710 U    | 1300           | NS       | 730 U    | 760 U    |
| Dibenz(a,h)anthracene        | µg/Kg          | NS       | 2000     | 720 U    | 710 U    | 640 J          | NS       | 730 U    | 760 U    |
| Benzo(g,h,i)perylene         | µg/Kg          | NS       | 5000     | 720 U    | 710 U    | 1400           | NS       | 730 U    | 760 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL          | SOIL     | SOIL     | SOIL     | SOIL     | SOIL          | SOIL     | SOIL     |
|------------------------|---------------|----------|----------|----------|----------|---------------|----------|----------|
| DEPTH                  | B-3           | B-4      | B-4      | B-4      | B-5      | B-5           | B-5      | B-5      |
| DATE                   | 8-8           | 0-2      | 2-4      | 4-6      | 0-2      | 2-4           | 4-6      | 4-6      |
| ES ID                  | 10/31/91      | 11/01/91 | 11/01/91 | 11/01/91 | 11/01/91 | 11/01/91      | 11/01/91 | 11/01/91 |
| LAB ID                 | S1031-11RE(4) | S1101-12 | S1101-13 | S1101-14 | S1101-15 | S1101-15RE(4) | S1101-16 | S1101-17 |
| UNITS                  | 147834        | 147885   | 147886   | 147887   | 147888   | 147888        | 147889   | 147890   |
| <b>VOCs</b>            |               |          |          |          |          |               |          |          |
| <b>PESTICIDES/PCBs</b> |               |          |          |          |          |               |          |          |
| alpha-BHC              | µg/Kg         | NS       | 19 U     | 17 U     | 17 U     | 20 U          | NS       | 18 U     |
| beta-BHC               | µg/Kg         | NS       | 19 U     | 17 U     | 17 U     | 20 U          | NS       | 18 U     |
| delta-BHC              | µg/Kg         | NS       | 19 U     | 17 U     | 17 U     | 20 U          | NS       | 18 U     |
| gamma-BHC (Lindane)    | µg/Kg         | NS       | 19 U     | 17 U     | 17 U     | 20 U          | NS       | 18 U     |
| Heptachlor             | µg/Kg         | NS       | 19 U     | 17 U     | 17 U     | 20 U          | NS       | 18 U     |
| Aldrin                 | µg/Kg         | NS       | 19 U     | 17 U     | 17 U     | 20 U          | NS       | 18 U     |
| Heptachlor epoxide     | µg/Kg         | NS       | 19 U     | 17 U     | 17 U     | 20 U          | NS       | 18 U     |
| Endosulfan I           | µg/Kg         | NS       | 19 U     | 17 U     | 17 U     | 20 U          | NS       | 18 U     |
| Dieldrin               | µg/Kg         | NS       | 38 U     | 35 U     | 34 U     | 41 U          | NS       | 37 U     |
| 4,4'-DDE               | µg/Kg         | NS       | 38 U     | 35 U     | 34 U     | 41 U          | NS       | 37 U     |
| Endrin                 | µg/Kg         | NS       | 38 U     | 35 U     | 34 U     | 41 U          | NS       | 37 U     |
| Endosulfan II          | µg/Kg         | NS       | 38 U     | 35 U     | 34 U     | 41 U          | NS       | 37 U     |
| 4,4'-DDD               | µg/Kg         | NS       | 38 U     | 35 U     | 34 U     | 41 U          | NS       | 37 U     |
| Endosulfan sulfate     | µg/Kg         | NS       | 38 U     | 35 U     | 34 U     | 41 U          | NS       | 37 U     |
| 4,4'-DDT               | µg/Kg         | NS       | 38 U     | 35 U     | 34 U     | 41 U          | NS       | 37 U     |
| Methoxychlor           | µg/Kg         | NS       | 190 U    | 170 U    | 170 U    | 200 U         | NS       | 180 U    |
| Endrin ketone          | µg/Kg         | NS       | 38 U     | 35 U     | 34 U     | 41 U          | NS       | 37 U     |
| Endrin aldehyde        | µg/Kg         | NS       | NS       | NS       | NS       | NS            | NS       | NS       |
| alpha-Chlordane        | µg/Kg         | NS       | 190 U    | 170 U    | 170 U    | 200 U         | NS       | 180 U    |
| gamma-Chlordane        | µg/Kg         | NS       | 190 U    | 170 U    | 170 U    | 200 U         | NS       | 180 U    |
| Toxaphene              | µg/Kg         | NS       | 380 U    | 350 U    | 340 U    | 410 U         | NS       | 370 U    |
| Aroclor-1016           | µg/Kg         | NS       | 190 U    | 170 U    | 170 U    | 200 U         | NS       | 180 U    |
| Aroclor-1221           | µg/Kg         | NS       | 190 U    | 170 U    | 170 U    | 200 U         | NS       | 180 U    |
| Aroclor-1232           | µg/Kg         | NS       | 190 U    | 170 U    | 170 U    | 200 U         | NS       | 180 U    |
| Aroclor-1242           | µg/Kg         | NS       | 190 U    | 170 U    | 170 U    | 200 U         | NS       | 180 U    |
| Aroclor-1248           | µg/Kg         | NS       | 190 U    | 170 U    | 170 U    | 200 U         | NS       | 180 U    |
| Aroclor-1254           | µg/Kg         | NS       | 380 U    | 350 U    | 340 U    | 410 U         | NS       | 370 U    |
| Aroclor-1260           | µg/Kg         | NS       | 380 U    | 350 U    | 340 U    | 410 U         | NS       | 370 U    |
| <b>HERBICIDES</b>      |               |          |          |          |          |               |          |          |
| 2,4-D                  | µg/Kg         | NS       | 59 U J   | 55 U J   | 54 U J   | 64 U J        | NS       | 55 U J   |
| 2,4-DB                 | µg/Kg         | NS       | 59 U J   | 140 J    | 230 J    | 64 U J        | NS       | 55 U J   |
| 2,4,5-T                | µg/Kg         | NS       | 5.9 U J  | 5.5 U J  | 5.4 U J  | 8.4 U J       | NS       | 5.5 U J  |
| 2,4,5-TP (Silvex)      | µg/Kg         | NS       | 5.9 U J  | 5.5 U J  | 5.4 U J  | 8.4 U J       | NS       | 5.5 U J  |
| Dalapon                | µg/Kg         | NS       | 140 U J  | 130 U J  | 130 U J  | 150 U J       | NS       | 130 U J  |
| Dicamba                | µg/Kg         | NS       | 5.9 U J  | 5.5 U J  | 5.4 U J  | 8.4 U J       | NS       | 5.5 U J  |
| Dichloroprop           | µg/Kg         | NS       | 59 U J   | 55 U J   | 54 U J   | 64 U J        | NS       | 55 U J   |
| Dinoseb                | µg/Kg         | NS       | 30 U J   | 27 U J   | 27 U J   | 32 U J        | NS       | 27 U J   |
| MCPA                   | µg/Kg         | NS       | 5900 U J | 5500 U J | 5400 U J | 6400 U J      | NS       | 5500 U J |
| MCPP                   | µg/Kg         | NS       | 5900 U J | 5500 U J | 5400 U J | 6400 U J      | NS       | 5500 U J |
| <b>METALS</b>          |               |          |          |          |          |               |          |          |
| Aluminum               | mg/kg         | NS       | 16400    | 11500    | 18100    | 8610          | NS       | 14000    |
| Antimony               | mg/kg         | NS       | 18.3 J   | 8.3 J    | 10.4 U J | 12 U J        | NS       | 8.5 U J  |
| Arsenic                | mg/kg         | NS       | 11.4     | 5.6      | 6.5      | 17.3          | NS       | 5.1      |
| Barium                 | mg/kg         | NS       | 455      | 82.9     | 58.5     | 399           | NS       | 61.3     |
| Beryllium              | mg/kg         | NS       | 0.75 U   | 0.59 J   | 0.87 J   | 0.79 U        | NS       | 0.7 J    |
| Cadmium                | mg/kg         | NS       | 7.9      | 1.7      | 2.4      | 10.4          | NS       | 2        |
| Calcium                | mg/kg         | NS       | 27500    | 134000   | 42200    | 104000        | NS       | 89100    |
| Chromium               | mg/kg         | NS       | 62       | 16.8     | 24.2     | 57            | NS       | 20.2     |
| Cobalt                 | mg/kg         | NS       | 15.7     | 8.2      | 14.5     | 10.9 J        | NS       | 12.5     |
| Copper                 | mg/kg         | NS       | 311      | 19.6 J   | 21.5 J   | 498           | NS       | 26.5 J   |
| Iron                   | mg/kg         | NS       | 83800    | 23200    | 37200    | 81400         | NS       | 30900    |
| Lead                   | mg/kg         | NS       | 2890     | 10.1     | 10.5     | 1750          | NS       | 248      |
| Magnesium              | mg/kg         | NS       | 6990     | 13100    | 9050     | 4090          | NS       | 8450     |
| Manganese              | mg/kg         | NS       | 606      | 485      | 549      | 964           | NS       | 796      |
| Mercury                | mg/kg         | NS       | 1.1      | 0.04 U   | 0.04 J   | 1             | NS       | 0.07 J   |
| Nickel                 | mg/kg         | NS       | 67.2     | 28.1     | 39       | 74.8          | NS       | 32       |
| Potassium              | mg/kg         | NS       | 2350     | 1720     | 1740     | 1380          | NS       | 1750     |
| Selenium               | mg/kg         | NS       | 0.19 U   | 0.7 U    | 0.2 U    | 0.25 U        | NS       | 0.17 U   |
| Silver                 | mg/kg         | NS       | 2.8      | 1.1 U    | 1.6 U    | 1.8 U         | NS       | 1.3 U    |
| Sodium                 | mg/kg         | NS       | 285 J    | 83 J     | 79.6 U J | 198 J         | NS       | 65.4 U J |
| Thallium               | mg/kg         | NS       | 0.54 U   | 0.39 U   | 0.57 U   | 0.7 U         | NS       | 0.47 U   |
| Vanadium               | mg/kg         | NS       | 24.9     | 15.3     | 18.1     | 14.5          | NS       | 20.2     |
| Zinc                   | mg/kg         | NS       | 3050     | 74.4     | 92.7     | 27600         | NS       | 513      |
| Cyanide                | mg/kg         | NS       | 0.69 U   | 0.63 U   | 0.6 U    | 0.61 U        | NS       | 0.64 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
 SOIL ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL     | SOIL          | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|----------------------------|----------|----------|---------------|----------|----------|----------|----------|----------|----------|
|                            | LOCATION | B-5      | B-5           | B-6      | B-6      | B-7      | B-7      | B-7      | B-8      |
|                            | DEPTH    | 8-10     | 8-10          | 0-2      | 2-4      | 0-2      | 2-4      | 10-12    | 0-2      |
|                            | DATE     | 11/01/91 | 11/01/91      | 11/04/91 | 11/04/91 | 11/04/91 | 11/04/91 | 11/04/91 | 11/05/91 |
|                            | ES ID    | S1101-18 | S1101-18RE(4) | S1104-19 | S1104-20 | S1104-21 | S1104-22 | S1104-23 | S1105-24 |
|                            | LAB ID   | 147891   | 147891        | 148021   | 148022   | 148023   | 148024   | 148025   | 148026   |
|                            | UNITS    |          |               |          |          |          |          |          |          |
| <b>VOCs</b>                |          |          |               |          |          |          |          |          |          |
| Chloromethane              | µg/Kg    | 10 U J   | 10 U J        | 12 U     | 11 U     | 11 U     | 11 U     | 13 U     | 12 U     |
| Bromomethane               | µg/Kg    | 10 U J   | 10 U J        | 12 U     | 11 U     | 11 U     | 11 U     | 13 U     | 12 U     |
| Vinyl Chloride             | µg/Kg    | 10 U J   | 10 U J        | 12 U     | 11 U     | 11 U     | 11 U     | 13 U     | 12 U     |
| Chloroethane               | µg/Kg    | 10 U J   | 10 U J        | 12 U     | 11 U     | 11 U     | 11 U     | 13 U     | 12 U     |
| Methylene Chloride         | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| Acetone                    | µg/Kg    | 24 U J   | 29 U J        | 12 U     | 11 U     | 13 U     | 11 U     | 29 U     | 13 U     |
| Carbon Disulfide           | µg/Kg    | 3 U J    | 3 J           | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| 1,1-Dichloroethane         | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| 1,1-Dichloroethane         | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| 1,2-Dichloroethane (total) | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 12       | 8        | 6 U      |
| Chloroform                 | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 2 J      |
| 1,2-Dichloroethane         | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| 2-Butanone                 | µg/Kg    | 10 U J   | 10 U J        | 12 U     | 11 U     | 11 U     | 11 U     | 13 U     | 12 U     |
| 1,1,1-Trichloroethane      | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| Carbon Tetrachloride       | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| Vinyl Acetate              | µg/Kg    | 10 U J   | 10 U J        | 12 U     | 11 U     | 11 U     | 11 U     | 13 U     | 12 U     |
| Bromodichloromethane       | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| 1,2-Dichloropropane        | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| cis-1,3-Dichloropropene    | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| Trichloroethene            | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 J      | 4 J      | 6 U      |
| Dibromochloromethane       | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| 1,1,2-Trichloroethane      | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| Benzene                    | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| trans-1,3-Dichloropropene  | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| Bromoform                  | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| 4-Methyl-2-Pentanone       | µg/Kg    | 10 U J   | 10 U J        | 12 U     | 11 U     | 11 U     | 11 U     | 13 U     | 12 U     |
| 2-Hexanone                 | µg/Kg    | 10 U J   | 10 U J        | 12 U     | 11 U     | 11 U     | 11 U     | 13 U     | 12 U     |
| Tetrachloroethene          | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| Toluene                    | µg/Kg    | 6 J      | 6 J           | 6 U      | 6 U      | 6 U      | 5 J      | 7 U      | 2 J      |
| Chlorobenzene              | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| Ethylbenzene               | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 2 J      | 7 U      | 6 U      |
| Styrene                    | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 5 U      | 7 U      | 6 U      |
| Xylene (total)             | µg/Kg    | 5 U J    | 5 U J         | 6 U      | 6 U      | 6 U      | 8        | 7 U      | 6 U      |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-5 | SOIL B-5       | SOIL B-6 | SOIL B-6 | SOIL B-7 | SOIL B-7 | SOIL B-7 | SOIL B-7 | SOIL B-8 |
|------------------------------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|
| DEPTH                        | 8-10     | 8-10           | 0-2      | 2-4      | 0-2      | 2-4      | 10-12    | 0-2      |          |
| DATE                         | 11/01/91 | 11/01/91       | 11/04/91 | 11/04/91 | 11/04/91 | 11/04/91 | 11/04/91 | 11/05/91 |          |
| ES ID                        | S1101-18 | S1101-18RE (4) | S1104-19 | S1104-20 | S1104-21 | S1104-22 | S1104-23 | S1105-24 |          |
| LAB ID                       | 147891   | 147891         | 148021   | 148022   | 148023   | 148024   | 148025   | 148026   |          |
| COMPOUND                     | UNITS    |                |          |          |          |          |          |          |          |
| <b>VOCs</b>                  |          |                |          |          |          |          |          |          |          |
| <b>SEMIVOLATILES</b>         |          |                |          |          |          |          |          |          |          |
| Phenol                       | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 780 U    |
| bis(2-Chloroethyl) ether     | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 780 U    |
| 2-Chlorophenol               | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 780 U    |
| 1,3-Dichlorobenzene          | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 780 U    |
| 1,4-Dichlorobenzene          | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 780 U    |
| Benzyl Alcohol               | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 780 U    |
| 1,2-Dichlorobenzene          | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 2-Methylphenol               | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| bis(2-Chloroisopropyl) ether | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 4-Methylphenol               | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| N-Nitroso-di-n-propylamine   | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Hexachloroethane             | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Nitrobenzene                 | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Isochlorone                  | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 2-Nitrophenol                | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 2,4-Dimethyl phenol          | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Benzic acid                  | µg/Kg    | NS             | NS       | 3800 U   | 3600 U   | 9000 U   | 500 J    | 4200 U   | 3700 U   |
| bis(2-Chloroethoxy) methane  | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 2,4-Dichlorophenol           | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 1,2,4-Trichlorobenzene       | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Naphthalene                  | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 830 J    | 440 J    | 870 U    | 780 U    |
| 4-Chloroaniline              | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 780 U    |
| Hexachlorobutadiene          | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 780 U    |
| 4-Chloro-3-methylphenol      | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 2-Methylnaphthalene          | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 430 J    | 380 J    | 870 U    | 780 U    |
| Hexachlorocyclopentadiene    | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 780 U    |
| 2,4,6-Trichlorophenol        | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 2,4,5-Trichlorophenol        | µg/Kg    | NS             | NS       | 3800 U   | 3600 U   | 9000 U   | 3500 U   | 4200 U   | 3700 U   |
| 2-Chloronaphthalene          | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 2-Nitroaniline               | µg/Kg    | NS             | NS       | 3800 U   | 3600 U   | 9000 U   | 3500 U   | 4200 U   | 3700 U   |
| Dimethylphthalate            | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Acenaphthylene               | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 2,6-Dinitrotoluene           | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 3-Nitroaniline               | µg/Kg    | NS             | NS       | 3800 U   | 3600 U   | 9000 U   | 3500 U   | 4200 U   | 3700 U   |
| Acenaphthene                 | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 2200     | 1000     | 870 U    | 760 U    |
| 2,4-Dinitrophenol            | µg/Kg    | NS             | NS       | 3800 U   | 3600 U   | 9000 U   | 3500 U   | 4200 U   | 3700 U   |
| 4-Nitrophenol                | µg/Kg    | NS             | NS       | 3800 U   | 3600 U   | 9000 U   | 3500 U   | 4200 U   | 3700 U   |
| Dibenzofuran                 | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 880 J    | 400 J    | 870 U    | 760 U    |
| 2,4-Dinitrotoluene           | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Diethylphthalate             | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 4-Chlorophenyl-phenylether   | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Fluorene                     | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 2000     | 880      | 870 U    | 760 U    |
| 4-Nitroaniline               | µg/Kg    | NS             | NS       | 3800 U   | 3600 U   | 9000 U   | 3500 U   | 4200 U   | 3700 U   |
| 4,6-Dinitro-2-methylphenol   | µg/Kg    | NS             | NS       | 3800 U   | 3600 U   | 9000 U   | 3500 U   | 4200 U   | 3700 U   |
| N-Nitrosodiphenylamine (1)   | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 4-Bromophenyl-phenylether    | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Hexachlorobenzene            | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Pentachlorophenol            | µg/Kg    | NS             | NS       | 3800 U   | 3600 U   | 9000 U   | 3500 U   | 4200 U   | 3700 U   |
| Phenanthrene                 | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 15000    | 5200     | 870 U    | 760 U    |
| Anthracene                   | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 3500     | 1300     | 870 U    | 760 U    |
| Carbazole                    | µg/Kg    | NS             | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Di-n-butylphthalate          | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 630 J    | 870 U    | 780 U    |
| Fluoranthene                 | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 22000    | 6700     | 870 U    | 760 U    |
| Pyrene                       | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 18000    | 4800     | 870 U    | 760 U    |
| Butylbenzylphthalate         | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| 3,3'-Dichlorobenzidine       | µg/Kg    | NS             | NS       | 1600 U   | 1500 U   | 3700 U   | 1400 U   | 1700 U   | 1500 U   |
| Benzo(a)anthracene           | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 9600     | 3000     | 870 U    | 780 U    |
| Chrysene                     | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 9500     | 3200     | 870 U    | 780 U    |
| bis(2-Ethylhexyl)phthalate   | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Di-n-octylphthalate          | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1900 U   | 720 U    | 870 U    | 760 U    |
| Benzo(b)fluoranthene         | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 9500     | 2900     | 870 U    | 760 U    |
| Benzo(k)fluoranthene         | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 6100     | 1700     | 870 U    | 760 U    |
| Benzo(a)pyrene               | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 8400     | 2500     | 870 U    | 760 U    |
| Indeno(1,2,3-cd)pyrene       | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 4600     | 1200     | 870 U    | 760 U    |
| Dibenz(a,h)anthracene        | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 1800 J   | 620 J    | 870 U    | 760 U    |
| Benzo(g,h,i)perylene         | µg/Kg    | NS             | NS       | 780 U    | 740 U    | 4000     | 1200     | 870 U    | 760 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-5 | SOIL B-5       | SOIL B-6 | SOIL B-6 | SOIL B-7 | SOIL B-7 | SOIL B-7 | SOIL B-7 | SOIL B-8 |
|------------------------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|
| DEPTH                  | 8-10     | 8-10           | 0-2      | 2-4      | 0-2      | 2-4      | 2-4      | 10-12    | 0-2      |
| DATE                   | 11/01/91 | 11/01/91       | 11/04/91 | 11/04/91 | 11/04/91 | 11/04/91 | 11/04/91 | 11/04/91 | 11/05/91 |
| ES ID                  | S1101-18 | S1101-18RE (4) | S1104-19 | S1104-20 | S1104-21 | S1104-22 | S1104-23 | S1104-23 | S1105-24 |
| LAB ID                 | 147891   | 147891         | 148021   | 148022   | 148023   | 148024   | 148025   | 148026   | 148026   |
| COMPOUND               | UNITS    |                |          |          |          |          |          |          |          |
| <b>VOCs</b>            |          |                |          |          |          |          |          |          |          |
| <b>PESTICIDES/PCBs</b> |          |                |          |          |          |          |          |          |          |
| alpha-BHC              | µg/Kg    | NS             | NS       | 19 U     | 18 U     | 18 U     | 17 U     | 21 U     | 18 U     |
| beta-BHC               | µg/Kg    | NS             | NS       | 19 U     | 18 U     | 18 U     | 17 U     | 21 U     | 18 U     |
| delta-BHC              | µg/Kg    | NS             | NS       | 19 U     | 18 U     | 18 U     | 17 U     | 21 U     | 18 U     |
| gamma-BHC (Lindane)    | µg/Kg    | NS             | NS       | 19 U     | 18 U     | 18 U     | 17 U     | 21 U     | 18 U     |
| Heptachlor             | µg/Kg    | NS             | NS       | 19 U     | 18 U     | 18 U     | 17 U     | 21 U     | 18 U     |
| Aldrin                 | µg/Kg    | NS             | NS       | 19 U     | 18 U     | 18 U     | 17 U     | 21 U     | 18 U     |
| Heptachlor epoxide     | µg/Kg    | NS             | NS       | 19 U     | 18 U     | 18 U     | 17 U     | 21 U     | 18 U     |
| Endosulfan I           | µg/Kg    | NS             | NS       | 19 U     | 18 U     | 18 U     | 17 U     | 21 U     | 18 U     |
| Dieldrin               | µg/Kg    | NS             | NS       | 38 U     | 36 U     | 36 U     | 35 U     | 42 U     | 37 U     |
| 4,4'-DDE               | µg/Kg    | NS             | NS       | 38 U     | 36 U     | 27 J     | 18 J     | 42 U     | 37 U     |
| Endrin                 | µg/Kg    | NS             | NS       | 38 U     | 36 U     | 36 U     | 35 U     | 42 U     | 37 U     |
| Endosulfan II          | µg/Kg    | NS             | NS       | 38 U     | 36 U     | 36 U     | 35 U     | 42 U     | 37 U     |
| 4,4'-DDD               | µg/Kg    | NS             | NS       | 38 U     | 36 U     | 27 J     | 29 J     | 42 U     | 37 U     |
| Endosulfan sulfate     | µg/Kg    | NS             | NS       | 38 U     | 36 U     | 36 U     | 35 U     | 42 U     | 37 U     |
| 4,4'-DDT               | µg/Kg    | NS             | NS       | 38 U     | 36 U     | 36       | 19 J     | 42 U     | 37 U     |
| Methoxychlor           | µg/Kg    | NS             | NS       | 190 U    | 180 U    | 180 U    | 170 U    | 210 U    | 180 U    |
| Endrin ketone          | µg/Kg    | NS             | NS       | 38 U     | 36 U     | 36 U     | 35 U     | 42 U     | 37 U     |
| Endrin aldehyde        | µg/Kg    | NS             | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| alpha-Chlordane        | µg/Kg    | NS             | NS       | 190 U    | 180 U    | 180 U    | 170 U    | 210 U    | 180 U    |
| gamma-Chlordane        | µg/Kg    | NS             | NS       | 190 U    | 180 U    | 180 U    | 170 U    | 210 U    | 180 U    |
| Toxaphene              | µg/Kg    | NS             | NS       | 380 U    | 360 U    | 360 U    | 350 U    | 420 U    | 370 U    |
| Aroclor-1016           | µg/Kg    | NS             | NS       | 190 U    | 180 U    | 180 U    | 170 U    | 210 U    | 180 U    |
| Aroclor-1221           | µg/Kg    | NS             | NS       | 190 U    | 180 U    | 180 U    | 170 U    | 210 U    | 180 U    |
| Aroclor-1232           | µg/Kg    | NS             | NS       | 190 U    | 180 U    | 180 U    | 170 U    | 210 U    | 180 U    |
| Aroclor-1242           | µg/Kg    | NS             | NS       | 190 U    | 180 U    | 180 U    | 170 U    | 210 U    | 180 U    |
| Aroclor-1246           | µg/Kg    | NS             | NS       | 190 U    | 180 U    | 180 U    | 170 U    | 210 U    | 180 U    |
| Aroclor-1254           | µg/Kg    | NS             | NS       | 380 U    | 360 U    | 360 U    | 350 U    | 420 U    | 370 U    |
| Aroclor-1260           | µg/Kg    | NS             | NS       | 380 U    | 360 U    | 360 U    | 350 U    | 420 U    | 370 U    |
| <b>HERBICIDES</b>      |          |                |          |          |          |          |          |          |          |
| 2,4-D                  | µg/Kg    | NS             | NS       | 59 U J   | 56 U J   | 56 U J   | 54 U J   | 66 U J   | 58 U J   |
| 2,4-DB                 | µg/Kg    | NS             | NS       | 91 U     | 56 U J   | 56 U J   | 54 U J   | 66 U J   | 58 U J   |
| 2,4,5-T                | µg/Kg    | NS             | NS       | 5.9 U J  | 5.6 U J  | 6 U J    | 5 U J    | 7 U J    | 6 U J    |
| 2,4,5-TP (Silvex)      | µg/Kg    | NS             | NS       | 5.9 U J  | 5.6 U J  | 6 U J    | 5 U J    | 7 U J    | 6 U J    |
| Dalapon                | µg/Kg    | NS             | NS       | 140 U J  | 130 U J  | 130 U J  | 130 U J  | 160 U J  | 140 U J  |
| Dicamba                | µg/Kg    | NS             | NS       | 5.9 U J  | 5.6 U J  | 6 U J    | 5 U J    | 7 U J    | 6 U J    |
| Dichloroprop           | µg/Kg    | NS             | NS       | 59 U J   | 56 U J   | 56 U J   | 54 U J   | 66 U J   | 58 U J   |
| Dinoseb                | µg/Kg    | NS             | NS       | 29 U J   | 28 U J   | 28 U J   | 27 U J   | 33 U J   | 29 U J   |
| MCPA                   | µg/Kg    | NS             | NS       | 5900 U J | 5600 U J | 5600 U J | 5400 U J | 6600 U J | 5800 U J |
| MCPP                   | µg/Kg    | NS             | NS       | 5900 U J | 5600 U J | 5600 U J | 5400 U J | 6600 U J | 5800 U J |
| <b>METALS</b>          |          |                |          |          |          |          |          |          |          |
| Aluminum               | mg/kg    | NS             | NS       | 20800    | 22500    | 15200    |          | 21600    | 19200    |
| Antimony               | mg/kg    | NS             | NS       | 7.7 U J  | 11.2 J   | 11.8 U J |          | 10.8 U J | 10.3 U J |
| Arsenic                | mg/kg    | NS             | NS       | 6.7      | 8.1      | 7.1 J    |          | 6.1 J    | 5.1 J    |
| Barium                 | mg/kg    | NS             | NS       | 123      | 108      | 181 J    |          | 119 J    | 136 J    |
| Beryllium              | mg/kg    | NS             | NS       | 1.2      | 1.4      | 1.2      |          | 1.4      | 1.4      |
| Cadmium                | mg/kg    | NS             | NS       | 2.5      | 2.7      | 3.2      |          | 3.1      | 2.8      |
| Calcium                | mg/kg    | NS             | NS       | 2710     | 9730     | 47000    |          | 4760     | 5390     |
| Chromium               | mg/kg    | NS             | NS       | 27.9     | 31.5     | 33.7 J   |          | 29.3 J   | 27.4 J   |
| Cobalt                 | mg/kg    | NS             | NS       | 14.5     | 16.7     | 12.9     |          | 17.3     | 13.8     |
| Copper                 | mg/kg    | NS             | NS       | 33.7 J   | 33.5 J   | 46.4     |          | 23.9     | 22.3     |
| Iron                   | mg/kg    | NS             | NS       | 31000    | 37900    | 34100    |          | 38500    | 37200    |
| Lead                   | mg/kg    | NS             | NS       | 12       | 10.8     | 85.9     |          | 14.3     | 14.5     |
| Magnesium              | mg/kg    | NS             | NS       | 5380     | 8910     | 9900     |          | 5620     | 5850     |
| Manganese              | mg/kg    | NS             | NS       | 917      | 739      | 688      |          | 1240     | 1130     |
| Mercury                | mg/kg    | NS             | NS       | 0.05 J   | 0.06 J   | 0.29     |          | 0.09 J   | 0.09     |
| Nickel                 | mg/kg    | NS             | NS       | 37.4     | 50.4     | 43       |          | 33.9     | 42.3     |
| Potassium              | mg/kg    | NS             | NS       | 2080     | 3030     | 2300     |          | 2270     | 1910     |
| Selenium               | mg/kg    | NS             | NS       | 0.18 J   | 0.13 U   | 0.18 U J |          | 0.22 U J | 0.17 U J |
| Silver                 | mg/kg    | NS             | NS       | 1.2 U    | 1.7 U    | 2.2      |          | 2.2      | 1.6 U    |
| Sodium                 | mg/kg    | NS             | NS       | 58.9 U J | 85.5 U J | 127 J    |          | 83.8 J   | 79.2 U   |
| Thallium               | mg/kg    | NS             | NS       | 0.43 U   | 0.37 U   | 0.5 U    |          | 0.61 U   | 0.47 U   |
| Vanadium               | mg/kg    | NS             | NS       | 32.7     | 31.3     | 36.8     |          | 29.2     | 32.2     |
| Zinc                   | mg/kg    | NS             | NS       | 89.6     | 106      | 252 J    |          | 94.9 J   | 85.1 J   |
| Cyanide                | mg/kg    | NS             | NS       | 0.68 U   | 0.68 U   | 0.67 U   |          | 0.77 U   | 0.6 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL     | SOIL         | SOIL     | SOIL     | SOIL     | SOIL     | SOIL           | SOIL     |  |
|----------------------------|----------|----------|--------------|----------|----------|----------|----------|----------------|----------|--|
|                            | LOCATION | B-8      | B-8          | B-8      | B-9      | B-9      | B-9      | B-9            | B-10     |  |
|                            | DEPTH    | 2-4      | 2-4          | 6-8      | 0-2      | 2-4      | 6-8      | 6-8            | 0-2      |  |
|                            | DATE     | 11/05/91 | 11/05/91     | 11/05/91 | 11/05/91 | 11/05/91 | 11/05/91 | 11/05/91       | 11/08/91 |  |
|                            | ES ID    | S1105-25 | S1105-26 (1) | S1105-27 | S1105-28 | S1105-29 | S1105-30 | S1105-30RE (4) | S1105-31 |  |
|                            | LAB ID   | 148027   | 148028       | 148029   | 148030   | 148031   | 148032   | 148032RI       | 148457   |  |
|                            | UNITS    |          |              |          |          |          |          |                |          |  |
| VOCs                       |          |          |              |          |          |          |          |                |          |  |
| Chloromethane              | µg/Kg    | 11 U     | 11 U         | 11 U     | 11 U     | 11 U     | 11 U     | NS             | NS       |  |
| Bromomethane               | µg/Kg    | 11 U     | 11 U         | 11 U     | 11 U     | 11 U     | 11 U     | NS             | NS       |  |
| Vinyl Chloride             | µg/Kg    | 11 U     | 11 U         | 11 U     | 11 U     | 11 U     | 11 U     | NS             | NS       |  |
| Chloroethane               | µg/Kg    | 11 U     | 11 U         | 11 U     | 11 U     | 11 U     | 11 U     | NS             | NS       |  |
| Methylene Chloride         | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Acetone                    | µg/Kg    | 11 U     | 11 U         | 11 U     | 11 U     | 11 U     | 11 U     | NS             | NS       |  |
| Carbon Disulfide           | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| 1,1-Dichloroethane         | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| 1,1-Dichloroethane         | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| 1,2-Dichloroethane (total) | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Chloroform                 | µg/Kg    | 5 U      | 4 J          | 5 U      | 6 U      | 4 J      | 1 J      | NS             | NS       |  |
| 1,2-Dichloroethane         | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| 2-Butanone                 | µg/Kg    | 11 U     | 11 U         | 11 U     | 11 U     | 11 U     | 11 U     | NS             | NS       |  |
| 1,1,1-Trichloroethane      | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Carbon Tetrachloride       | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Vinyl Acetate              | µg/Kg    | 11 U     | 11 U         | 11 U     | 11 U     | 11 U     | 11 U     | NS             | NS       |  |
| Bromodichloromethane       | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| 1,2-Dichloropropane        | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| cis-1,3-Dichloropropene    | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Trichloroethene            | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Dibromochloromethane       | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| 1,1,2-Trichloroethane      | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Benzene                    | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| trans-1,3-Dichloropropene  | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Bromoform                  | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| 4-Methyl-2-Pentanone       | µg/Kg    | 11 U     | 11 U         | 11 U     | 11 U     | 11 U     | 11 U     | NS             | NS       |  |
| 2-Hexanone                 | µg/Kg    | 11 U     | 11 U         | 11 U     | 11 U     | 11 U     | 11 U     | NS             | NS       |  |
| Tetrachloroethene          | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Toluene                    | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Chlorobenzene              | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Ethylbenzene               | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Styrene                    | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |
| Xylene (total)             | µg/Kg    | 5 U      | 6 U          | 5 U      | 6 U      | 6 U      | 5 U      | NS             | NS       |  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX LOCATION | SOIL         | SOIL     | SOIL     | SOIL     | SOIL     | SOIL           | SOIL     | SOIL     | SOIL     |
|------------------------------|-----------------|--------------|----------|----------|----------|----------|----------------|----------|----------|----------|
|                              | DEPTH           | B-8          | B-8      | B-8      | B-9      | B-9      | B-9            | B-9      | B-9      | B-10     |
| UNITS                        | 2-4             | 2-4          | 2-4      | 0-2      | 2-4      | 2-4      | 0-2            | 0-2      | 0-2      | 0-2      |
| DATE                         | 11/05/91        | 11/05/91     | 11/05/91 | 11/05/91 | 11/05/91 | 11/05/91 | 11/05/91       | 11/05/91 | 11/05/91 | 11/06/91 |
| ES ID                        | S1105-25        | S1105-26 (1) | S1105-27 | S1105-28 | S1105-29 | S1105-30 | S1105-30RE (4) | S1106-31 |          |          |
| LAB ID                       | 148027          | 148028       | 148029   | 148030   | 148031   | 148032   | 148032R1       | 148457   |          |          |
| <b>VOCs</b>                  |                 |              |          |          |          |          |                |          |          |          |
| <b>SEMI-VOLATILES</b>        |                 |              |          |          |          |          |                |          |          |          |
| Phenol                       | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| bis(2-Chloroethyl) ether     | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2-Chlorophenol               | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 1,3-Dichlorobenzene          | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 1,4-Dichlorobenzene          | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Benzyl Alcohol               | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 1,2-Dichlorobenzene          | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2-Methylphenol               | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| bis(2-Chloroisopropyl) ether | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 4-Methylphenol               | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| N-Nitroso-di-n-propylamine   | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Hexachloroethane             | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Nitrobenzene                 | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Isophorone                   | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2-Nitrophenol                | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2,4-Dimethylphenol           | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Benzic acid                  | µg/Kg           | 3600 U       | 3500 U   | 3400 U   | 3800 U   | 3500 U J | 3400 U         | NS       |          | 3600 U   |
| bis(2-Chloroethoxy) methane  | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2,4-Dichlorophenol           | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 1,2,4-Trichlorobenzene       | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Naphthalene                  | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 310 J    |
| 4-Chloroaniline              | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Hexachlorobutadiene          | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 4-Chloro-3-methylphenol      | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2-Methylnaphthalene          | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 140 J    |
| Hexachlorocyclopentadiene    | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2,4,6-Trichlorophenol        | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2,4,5-Trichlorophenol        | µg/Kg           | 3600 U       | 3500 U   | 3400 U   | 3800 U   | 3500 U J | 3400 U         | NS       |          | 3600 U   |
| 2-Chloronaphthalene          | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2-Nitroaniline               | µg/Kg           | 3600 U       | 3500 U   | 3400 U   | 3800 U   | 3500 U J | 3400 U         | NS       |          | 3600 U   |
| Dimethylphthalate            | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Acenaphthylene               | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 2,6-Dinitrotoluene           | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 3-Nitroaniline               | µg/Kg           | 3600 U       | 3500 U   | 3400 U   | 3800 U   | 3500 U J | 3400 U         | NS       |          | 3600 U   |
| Acenaphthene                 | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 640 J    |
| 2,4-Dinitrophenol            | µg/Kg           | 3600 U       | 3500 U   | 3400 U   | 3800 U   | 3500 U J | 3400 U         | NS       |          | 3600 U   |
| 4-Nitrophenol                | µg/Kg           | 3600 U       | 3500 U   | 3400 U   | 3800 U   | 3500 U J | 3400 U         | NS       |          | 3600 U   |
| Dibenzofuran                 | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 310 J    |
| 2,4-Dinitrotoluene           | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 640 U    |
| Diethylphthalate             | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 4-Chlorophenyl-phenylether   | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Fluorene                     | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 570 J    |
| 4-Nitroaniline               | µg/Kg           | 3600 U       | 3500 U   | 3400 U   | 3800 U   | 3500 U J | 3400 U         | NS       |          | 3800 U   |
| 4,6-Dinitro-2-methylphenol   | µg/Kg           | 3600 U       | 3500 U   | 3400 U   | 3800 U   | 3500 U J | 3400 U         | NS       |          | 3800 U   |
| N-Nitrosodiphenylamine (1)   | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 4-Bromophenyl-phenylether    | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Hexachlorobenzene            | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Pentachlorophenol            | µg/Kg           | 3600 U       | 3500 U   | 3400 U   | 3800 U   | 3500 U J | 3400 U         | NS       |          | 3600 U   |
| Phenanthrene                 | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 4400     |
| Anthracene                   | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 1200     |
| Carbazole                    | µg/Kg           | NS           | NS       | NS       | NS       | NS       | NS             | NS       |          | NS       |
| Di-n-butylphthalate          | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Fluoranthene                 | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 5400     |
| Pyrene                       | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 5000     |
| Butylbenzylphthalate         | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| 3,3'-Dichlorobenzidine       | µg/Kg           | 1500 U       | 1400 U   | 1400 U   | 1600 U   | 1500 U J | 1400 U         | NS       |          | 1500 U   |
| Benzo(a)anthracene           | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 2700     |
| Chrysene                     | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 2200     |
| bis(2-Ethylhexyl)phthalate   | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 800 J    |
| Di-n-octylphthalate          | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 740 U    |
| Benzo(b)fluoranthene         | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 2500     |
| Benzo(k)fluoranthene         | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 1400     |
| Benzo(a)pyrene               | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 2200     |
| Indeno(1,2,3-cd)pyrene       | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 1200     |
| Dibenz(a,h)anthracene        | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 630 J    |
| Benzo(g,h,i)perylene         | µg/Kg           | 750 U        | 720 U    | 700 U    | 780 U    | 730 U J  | 710 U          | NS       |          | 1200     |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-8 | SOIL B-8     | SOIL B-8 | SOIL B-9 | SOIL B-9 | SOIL B-9 | SOIL B-9       | SOIL B-9       | SOIL B-10 |
|------------------------|----------|--------------|----------|----------|----------|----------|----------------|----------------|-----------|
| DEPTH                  | 2-4      | 2-4          | 6-8      | 0-2      | 2-4      | 6-8      | 6-8            | 6-8            | 0-2       |
| DATE                   | 11/05/91 | 11/05/91     | 11/05/91 | 11/05/91 | 11/05/91 | 11/05/91 | 11/05/91       | 11/05/91       | 11/08/91  |
| ES ID                  | S1105-25 | S1105-26 (1) | S1105-27 | S1105-28 | S1105-29 | S1105-30 | S1105-30RE (4) | S1105-30RE (4) | S1106-31  |
| LAB ID                 | 148027   | 148028       | 148029   | 148030   | 148031   | 148032   | 148032R1       | 148032R1       | 148457    |
| COMPOUND               | UNITS    | UNITS        | UNITS    | UNITS    | UNITS    | UNITS    | UNITS          | UNITS          | UNITS     |
| <b>VOCs</b>            |          |              |          |          |          |          |                |                |           |
| <b>PESTICIDES/PCBs</b> |          |              |          |          |          |          |                |                |           |
| alpha-BHC              | µg/Kg    | 18 U         | 18 U     | 17 U     | 19 U     | 17 U J   | 17 U J         | NS             | 18 U      |
| beta-BHC               | µg/Kg    | 18 U         | 18 U     | 17 U     | 19 U     | 17 U J   | 17 U J         | NS             | 18 U      |
| delta-BHC              | µg/Kg    | 18 U         | 18 U     | 17 U     | 19 U     | 17 U J   | 17 U J         | NS             | 18 U      |
| gamma-BHC (Lindane)    | µg/Kg    | 18 U         | 18 U     | 17 U     | 19 U     | 17 U J   | 17 U J         | NS             | 18 U      |
| Heptachlor             | µg/Kg    | 18 U         | 18 U     | 17 U     | 19 U     | 17 U J   | 17 U J         | NS             | 18 U      |
| Aldrin                 | µg/Kg    | 18 U         | 18 U     | 17 U     | 19 U     | 17 U J   | 17 U J         | NS             | 18 U      |
| Heptachlor epoxide     | µg/Kg    | 18 U         | 18 U     | 17 U     | 19 U     | 17 U J   | 17 U J         | NS             | 18 U      |
| Endosulfan I           | µg/Kg    | 18 U         | 18 U     | 17 U     | 19 U     | 17 U J   | 17 U J         | NS             | 18 U      |
| Dieldrin               | µg/Kg    | 36 U         | 35 U     | 34 U     | 38 U     | 35 U J   | 34 U J         | NS             | 36 U      |
| 4,4'-DDE               | µg/Kg    | 36 U         | 35 U     | 34 U     | 38 U     | 35 U J   | 34 U J         | NS             | 36 U J    |
| Endrin                 | µg/Kg    | 36 U         | 35 U     | 34 U     | 38 U     | 35 U J   | 34 U J         | NS             | 36 U      |
| Endosulfan II          | µg/Kg    | 36 U         | 35 U     | 34 U     | 38 U     | 35 U J   | 34 U J         | NS             | 36 U      |
| 4,4'-DDD               | µg/Kg    | 36 U         | 35 U     | 34 U     | 38 U     | 35 U J   | 34 U J         | NS             | 23 J      |
| Endosulfan sulfate     | µg/Kg    | 36 U         | 35 U     | 34 U     | 38 U     | 35 U J   | 34 U J         | NS             | 36 U      |
| 4,4'-DDT               | µg/Kg    | 36 U         | 35 U     | 34 U     | 38 U     | 35 U J   | 34 U J         | NS             | 36 U      |
| Methoxychlor           | µg/Kg    | 180 U        | 180 U    | 170 U    | 190 U    | 170 U J  | 170 U J        | NS             | 180 U     |
| Endrin ketone          | µg/Kg    | 36 U         | 35 U     | 34 U     | 38 U     | 35 U J   | 34 U J         | NS             | 36 U      |
| Endrin aldehyde        | µg/Kg    | NS           | NS       | NS       | NS       | NS       | NS             | NS             | NS        |
| alpha-Chlordane        | µg/Kg    | 180 U        | 180 U    | 170 U    | 190 U    | 170 U J  | 170 U J        | NS             | 180 U     |
| gamma-Chlordane        | µg/Kg    | 180 U        | 180 U    | 170 U    | 190 U    | 170 U J  | 170 U J        | NS             | 180 U     |
| Toxaphene              | µg/Kg    | 360 U        | 350 U    | 340 U    | 380 U    | 350 U J  | 340 U J        | NS             | 360 U     |
| Aroclor-1016           | µg/Kg    | 180 U        | 180 U    | 170 U    | 190 U    | 170 U J  | 170 U J        | NS             | 180 U     |
| Aroclor-1221           | µg/Kg    | 180 U        | 180 U    | 170 U    | 190 U    | 170 U J  | 170 U J        | NS             | 180 U     |
| Aroclor-1232           | µg/Kg    | 180 U        | 180 U    | 170 U    | 190 U    | 170 U J  | 170 U J        | NS             | 180 U     |
| Aroclor-1242           | µg/Kg    | 180 U        | 180 U    | 170 U    | 190 U    | 170 U J  | 170 U J        | NS             | 180 U     |
| Aroclor-1248           | µg/Kg    | 180 U        | 180 U    | 170 U    | 190 U    | 170 U J  | 170 U J        | NS             | 180 U     |
| Aroclor-1254           | µg/Kg    | 360 U        | 350 U    | 340 U    | 380 U    | 350 U J  | 340 U J        | NS             | 360 U     |
| Aroclor-1260           | µg/Kg    | 360 U        | 350 U    | 340 U    | 380 U    | 350 U J  | 340 U J        | NS             | 360 U     |
| <b>HERBICIDES</b>      |          |              |          |          |          |          |                |                |           |
| 2,4-D                  | µg/Kg    | 56 U J       | 56 U J   | 53 U J   | 60 U J   | 56 U J   | NS             | 54 U J         | 57 U J    |
| 2,4-DB                 | µg/Kg    | 56 U J       | 56 U J   | 53 U J   | 60 U J   | 56 U J   | NS             | 54 U J         | 57 U J    |
| 2,4,5-T                | µg/Kg    | 6 U J        | 6 U J    | 5 U J    | 6 U J    | 6 U J    | NS             | 5 U J          | 6 U J     |
| 2,4,5-TP (Silvex)      | µg/Kg    | 6 U J        | 6 U J    | 5 U J    | 6 U J    | 6 U J    | NS             | 5 U J          | 10 J      |
| Dalapon                | µg/Kg    | 130 U J      | 130 U J  | 130 U J  | 140 U J  | 130 U J  | NS             | 130 U J        | 140 U J   |
| Dicamba                | µg/Kg    | 6 U J        | 6 U J    | 5 U J    | 6 U J    | 6 U J    | NS             | 5 U J          | 6 U J     |
| Dichloroprop           | µg/Kg    | 56 U J       | 56 U J   | 53 U J   | 60 U J   | 56 U J   | NS             | 54 U J         | 57 U J    |
| Dinoseb                | µg/Kg    | 28 U J       | 28 U J   | 27 U J   | 30 U J   | 28 U J   | NS             | 27 U J         | 29 U J    |
| MCPA                   | µg/Kg    | 5600 U J     | 5600 U J | 5300 U J | 6000 U J | 5600 U J | NS             | 5400 U J       | 5700 U J  |
| MCPP                   | µg/Kg    | 5600 U J     | 5600 U J | 5300 U J | 6000 U J | 5600 U J | NS             | 5400 U J       | 13000 J   |
| <b>METALS</b>          |          |              |          |          |          |          |                |                |           |
| Aluminum               | mg/kg    | 20500        | 17700    | 12700    | 14800    | 8880     | 7160           | NS             | 16800     |
| Antimony               | mg/kg    | 8.8 U J      | 8.2 U J  | 8.4 U J  | 9.9 U J  | 9.9 U J  | 7 U J          | NS             | 8 U J     |
| Arsenic                | mg/kg    | 6.1 J        | 6 J      | 4.2 J    | 4.3 J    | 3.8 J    | 4.4 J          | NS             | 9.8 J     |
| Barium                 | mg/kg    | 98.9 J       | 86.7 J   | 56.2 J   | 101 J    | 110 J    | 39.9 J         | NS             | 170 J     |
| Beryllium              | mg/kg    | 1.2          | 1        | 0.78 J   | 1.1      | 0.78     | 0.52 J         | NS             | 0.67 J    |
| Cadmium                | mg/kg    | 2.9          | 2.4      | 1.9      | 2.3      | 1.7      | 1.5            | NS             | 5.8       |
| Calcium                | mg/kg    | 4870         | 3580     | 85900    | 45600    | 10400    | 101000         | NS             | 48500     |
| Chromium               | mg/kg    | 30.1 J       | 26.9 J   | 19.8 J   | 22.5 J   | 13.8 J   | 11.2 J         | NS             | 36.5 J    |
| Cobalt                 | mg/kg    | 18.4         | 14       | 14.2     | 13.7     | 10.7     | 8.1            | NS             | 14.7      |
| Copper                 | mg/kg    | 27.6         | 26       | 16.2     | 22.6     | 21.6     | 19.3           | NS             | 105       |
| Iron                   | mg/kg    | 36100        | 32500    | 27400    | 31000    | 19600    | 17300          | NS             | 71100     |
| Lead                   | mg/kg    | 11.4         | 13.6     | 10.1     | 10.8     | 10.1     | 7.8            | NS             | 191       |
| Magnesium              | mg/kg    | 7300         | 6490     | 6720     | 8860     | 17000    | 12600          | NS             | 13300     |
| Manganese              | mg/kg    | 956          | 832      | 926      | 903      | 532      | 514            | NS             | 670       |
| Mercury                | mg/kg    | 0.06 J       | 0.06 J   | 0.05 J   | 0.08 J   | 0.04 J   | 0.05 J         | NS             | 0.24      |
| Nickel                 | mg/kg    | 48.7         | 44.4     | 30.4     | 38.4     | 23.8     | 19             | NS             | 43.3      |
| Potassium              | mg/kg    | 2110         | 1760     | 1430     | 1320     | 1080     | 1050           | NS             | 1730      |
| Selenium               | mg/kg    | 0.21 U J     | 0.2 U J  | 0.61 U J | 0.21 U J | 0.65 U J | 0.21 U J       | NS             | 0.17 U J  |
| Silver                 | mg/kg    | 1.3 U        | 1.2 U    | 1.3 U    | 1.5 U    | 1.5 U    | 1.1 U          | NS             | 1.8       |
| Sodium                 | mg/kg    | 67.5 U       | 62.6 U   | 75.3 J   | 84.2 J   | 112 J    | 116 J          | NS             | 708 J     |
| Thallium               | mg/kg    | 0.58 U       | 0.57 U   | 0.34 U   | 0.59 U   | 0.36 U   | 0.6 U          | NS             | 4.7 U     |
| Vanadium               | mg/kg    | 25.4         | 26.4     | 15.7     | 19.7     | 19.5     | 12.9           | NS             | 22.1      |
| Zinc                   | mg/kg    | 94.2 J       | 85 J     | 75 J     | 126 J    | 84.3 J   | 74.8 J         | NS             | 1940 U    |
| Cyanide                | mg/kg    | 0.63 U       | 0.67 U   | 0.58 U   | 0.7 U    | 0.63 U   | 0.62 U         | NS             | 0.66      |



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VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION | SOIL B-10 | SOIL B-10 | SOIL B-10 | SOIL B-10 | SOIL B-11 | SOIL B-11 | SOIL B-11 | SOIL B-12 |
|----------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                            | DEPTH           | DATE      | DATE      | DATE      | DATE      | DATE      | DATE      | DATE      | DATE      |
| UNITS                      | ES ID           | ES ID     | ES ID     | ES ID     | ES ID     | ES ID     | ES ID     | ES ID     | ES ID     |
|                            | LAB ID          | LAB ID    | LAB ID    | LAB ID    | LAB ID    | LAB ID    | LAB ID    | LAB ID    | LAB ID    |
| VOCs                       |                 |           |           |           |           |           |           |           |           |
| Chloromethane              | µg/Kg           | 12 U      | 11 U      | 11 U      | 52 U R    | 11 U      | 10 U      | 11 U      | 12 U      |
| Bromomethane               | µg/Kg           | 12 U      | 11 U      | 11 U      | 52 U R    | 11 U      | 10 U      | 11 U      | 12 U      |
| Vinyl Chloride             | µg/Kg           | 12 U      | 11 U      | 82        | 71 R      | 11 U      | 10 U      | 11 U      | 12 U      |
| Chloroethane               | µg/Kg           | 12 U      | 11 U      | 3 J       | 52 U R    | 11 U      | 10 U      | 11 U      | 12 U      |
| Methylene Chloride         | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Acetone                    | µg/Kg           | 43        | 11 U      | 11 U      | 52 U R    | 11 U      | 10 U      | 38 U      | 12 U      |
| Carbon Disulfide           | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| 1,1-Dichloroethane         | µg/Kg           | 6 U       | 6 U       | 1 J       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| 1,1-Dichloroethane         | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| 1,2-Dichloroethane (total) | µg/Kg           | 6 U       | 6 U       | 1400 R    | 1300      | 6 U       | 5 U       | 6 U       | 6 U       |
| Chloroform                 | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| 1,2-Dichloroethane         | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| 2-Butanone                 | µg/Kg           | 12 U      | 11 U      | 11 U      | 52 U R    | 11 U      | 10 U      | 6 J       | 12 U      |
| 1,1,1-Trichloroethane      | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Carbon Tetrachloride       | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Vinyl Acetate              | µg/Kg           | 12 U      | 11 U      | 11 U      | 52 U R    | 11 U      | 10 U      | 11 U      | 12 U      |
| Bromodichloromethane       | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| 1,2-Dichloropropane        | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| cis-1,3-Dichloropropene    | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Trichloroethene            | µg/Kg           | 4 J       | 6 U       | 220       | 230 R     | 6 U       | 5 U       | 6 U       | 6 U       |
| Dibromochloromethane       | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| 1,1,2-Trichloroethane      | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Benzene                    | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| trans-1,3-Dichloropropene  | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Bromoform                  | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| 4-Methyl-2-Pentanone       | µg/Kg           | 12 U      | 11 U      | 11 U      | 52 U R    | 11 U      | 10 U      | 11 U      | 12 U      |
| 2-Hexanone                 | µg/Kg           | 12 U      | 11 U      | 11 U      | 52 U R    | 11 U      | 10 U      | 11 U      | 12 U      |
| Tetrachloroethene          | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| 1,1,2,2-Tetrachloroethane  | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Toluene                    | µg/Kg           | 2 J       | 2 J       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Chlorobenzene              | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Ethylbenzene               | µg/Kg           | 6 U       | 3 J       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Styrene                    | µg/Kg           | 6 U       | 6 U       | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |
| Xylene (total)             | µg/Kg           | 5 J       | 20 J      | 6 U       | 26 U R    | 6 U       | 5 U       | 6 U       | 6 U       |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-10 | SOIL B-10    | SOIL B-10 | SOIL B-10     | SOIL B-11 | SOIL B-11 | SOIL B-11 | SOIL B-11 | SOIL B-12 |
|------------------------------|-----------|--------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| DEPTH                        | 2-4       | 2-4          | 6-8       | 6-8           | 0-2       | 2-4       | 6-8       | 0-2       |           |
| DATE                         | 11/06/91  | 11/06/91     | 11/06/91  | 11/06/91      | 11/06/91  | 11/06/91  | 11/06/91  | 11/06/91  | 11/07/91  |
| ES ID                        | S1106-32  | S1106-33 (1) | S1106-34  | S1106-34DL(5) | S1106-36  | S1106-37  | S1106-38  | S1106-38  | S1107-39  |
| LAB ID                       | 148458    | 148459       | 148460    | 148460        | 148462    | 148463    | 148464    | 148464    | 148704    |
| COMPOUND                     | UNITS     |              |           |               |           |           |           |           |           |
| <b>VOCs</b>                  |           |              |           |               |           |           |           |           |           |
| <b>SEMIVOLATILES</b>         |           |              |           |               |           |           |           |           |           |
| Phenol                       | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| bis(2-Chloroethyl) ether     | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2-Chlorophenol               | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 1,3-Dichlorobenzene          | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 1,4-Dichlorobenzene          | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Benzyl Alcohol               | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 1,2-Dichlorobenzene          | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2-Methylphenol               | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| bis(2-Chloroisopropyl) ether | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 4-Methylphenol               | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| N-Nitroso-di-n-propylamine   | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Hexachloroethane             | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Nitrobenzene                 | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Isophorone                   | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2-Nitrophenol                | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2,4-Dimethylphenol           | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Benzic acid                  | µg/Kg     | 3600 U       | 3700 U    | 3600 U        | NS        | 3600 U    | 3400 U    | 3500 U    | 3700 U    |
| bis(2-Chloroethoxy) methane  | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2,4-Dichlorophenol           | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 1,2,4-Trichlorobenzene       | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Naphthalene                  | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 4-Chloroaniline              | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Hexachlorobutadiene          | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 4-Chloro-3-methylphenol      | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2-Methylnaphthalene          | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Hexachlorocyclopentadiene    | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2,4,6-Trichlorophenol        | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2,4,5-Trichlorophenol        | µg/Kg     | 3600 U       | 3700 U    | 3600 U        | NS        | 3600 U    | 3400 U    | 3500 U    | 3700 U    |
| 2-Chloronaphthalene          | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2-Nitroaniline               | µg/Kg     | 3600 U       | 3700 U    | 3600 U        | NS        | 3600 U    | 3400 U    | 3500 U    | 3700 U    |
| Dimethylphthalate            | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Acenaphthylene               | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2,6-Dinitrotoluene           | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 3-Nitroaniline               | µg/Kg     | 3600 U       | 3700 U    | 3600 U        | NS        | 3600 U    | 3400 U    | 3500 U    | 3700 U    |
| Acenaphthene                 | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2,4-Dinitrophenol            | µg/Kg     | 3600 U       | 3700 U    | 3600 U        | NS        | 3600 U    | 3400 U    | 3500 U    | 3700 U    |
| 4-Nitrophenol                | µg/Kg     | 3600 U       | 3700 U    | 3600 U        | NS        | 3600 U    | 3400 U    | 3500 U    | 3700 U    |
| Dibenzofuran                 | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 2,4-Dinitrotoluene           | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Diethylphthalate             | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 4-Chlorophenyl-phenylether   | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Fluorene                     | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 4-Nitroaniline               | µg/Kg     | 3600 U       | 3700 U    | 3600 U        | NS        | 3600 U    | 3400 U    | 3500 U    | 3700 U    |
| 4,6-Dinitro-2-methylphenol   | µg/Kg     | 3600 U       | 3700 U    | 3600 U        | NS        | 3600 U    | 3400 U    | 3500 U    | 3700 U    |
| N-Nitrosodiphenylamine (1)   | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 4-Bromophenyl-phenylether    | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Hexachlorobenzene            | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Pentachlorophenol            | µg/Kg     | 3600 U       | 3700 U    | 3600 U        | NS        | 3600 U    | 3400 U    | 3500 U    | 3700 U    |
| Phenanthrene                 | µg/Kg     | 160 J        | 180 J     | 750 U         | NS        | 87 J      | 710 U     | 720 U     | 760 U     |
| Anthracene                   | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Carbazole                    | µg/Kg     | NS           | NS        | NS            | NS        | NS        | NS        | NS        | NS        |
| Di-n-butylphthalate          | µg/Kg     | 77 J         | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Fluoranthene                 | µg/Kg     | 280 J        | 300 J     | 750 U         | NS        | 110 J     | 710 U     | 720 U     | 760 U     |
| Pyrene                       | µg/Kg     | 250 J        | 240 J     | 750 U         | NS        | 91 J      | 710 U     | 720 U     | 760 U     |
| Butylbenzylphthalate         | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| 3,3'-Dichlorobenzidine       | µg/Kg     | 1500 U       | 1500 U    | 1500 U        | NS        | 1600 U    | 1400 U    | 1400 U    | 1500 U    |
| Benzo(a)anthracene           | µg/Kg     | 160 J        | 150 J     | 750 U         | NS        | 76 J      | 710 U     | 720 U     | 760 U     |
| Chrysene                     | µg/Kg     | 160 J        | 160 J     | 750 U         | NS        | 79 J      | 710 U     | 720 U     | 760 U     |
| bis(2-Ethylhexyl)phthalate   | µg/Kg     | 100 J        | 360 J     | 100 J         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Di-n-octylphthalate          | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Benzo(b)fluoranthene         | µg/Kg     | 160 J        | 140 J     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Benzo(k)fluoranthene         | µg/Kg     | 110 J        | 140 J     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Benzo(a)pyrene               | µg/Kg     | 170 J        | 150 J     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Indeno(1,2,3-cd)pyrene       | µg/Kg     | 110 J        | 96 J      | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Dibenz(a,h)anthracene        | µg/Kg     | 730 U        | 760 U     | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |
| Benzo(g,h,i)perylene         | µg/Kg     | 120 J        | 99 J      | 750 U         | NS        | 780 U     | 710 U     | 720 U     | 760 U     |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-10 | SOIL B-10    | SOIL B-10 | SOIL B-10     | SOIL B-11 | SOIL B-11 | SOIL B-11 | SOIL B-12 |
|------------------------|-----------|--------------|-----------|---------------|-----------|-----------|-----------|-----------|
| DEPTH                  | 2-4       | 2-4          | 6-8       | 6-8           | 0-2       | 2-4       | 6-8       | 0-2       |
| DATE                   | 11/08/91  | 11/08/91     | 11/08/91  | 11/08/91      | 11/08/91  | 11/08/91  | 11/08/91  | 11/07/91  |
| ES ID                  | S1106-32  | S1106-33 (1) | S1106-34  | S1106-34DL(5) | S1106-38  | S1106-37  | S1106-38  | S1107-39  |
| LAB ID                 | 148458    | 148459       | 148460    | 148460        | 148462    | 148463    | 148464    | 148704    |
| COMPOUND               | UNITS     | UNITS        | UNITS     | UNITS         | UNITS     | UNITS     | UNITS     | UNITS     |
| <b>VOCs</b>            |           |              |           |               |           |           |           |           |
| <b>PESTICIDES/PCBs</b> |           |              |           |               |           |           |           |           |
| alpha-BHC              | µg/Kg     | 18 U         | 18 U      | 18 U          | NS        | 19 U      | 17 U      | 18 U      |
| beta-BHC               | µg/Kg     | 18 U         | 18 U      | 18 U          | NS        | 19 U      | 17 U      | 18 U      |
| delta-BHC              | µg/Kg     | 18 U         | 18 U      | 18 U          | NS        | 19 U      | 17 U      | 18 U      |
| gamma-BHC (Lindane)    | µg/Kg     | 18 U         | 18 U      | 18 U          | NS        | 19 U      | 17 U      | 18 U      |
| Heptachlor             | µg/Kg     | 18 U         | 18 U      | 18 U          | NS        | 19 U      | 17 U      | 18 U      |
| Aldrin                 | µg/Kg     | 18 U         | 18 U      | 18 U          | NS        | 19 U      | 17 U      | 18 U      |
| Heptachlor epoxide     | µg/Kg     | 18 U         | 18 U      | 18 U          | NS        | 19 U      | 17 U      | 18 U      |
| Endosulfan I           | µg/Kg     | 18 U         | 18 U      | 18 U          | NS        | 19 U      | 17 U      | 18 U      |
| Dieldrin               | µg/Kg     | 36 U         | 37 U      | 36 U          | NS        | 38 U      | 34 U      | 35 U      |
| 4,4'-DDE               | µg/Kg     | 28 J         | 30 J      | 36 U          | NS        | 38 U      | 34 U      | 35 U      |
| Endrin                 | µg/Kg     | 36 U         | 37 U      | 36 U          | NS        | 38 U      | 34 U      | 35 U      |
| Endosulfan II          | µg/Kg     | 36 U         | 37 U      | 36 U          | NS        | 38 U      | 34 U      | 35 U      |
| 4,4'-DDD               | µg/Kg     | 36           | 37 J      | 36 U          | NS        | 38 U      | 34 U      | 35 U      |
| Endosulfan sulfate     | µg/Kg     | 36 U         | 37 U      | 36 U          | NS        | 38 U      | 34 U      | 35 U      |
| 4,4'-DDT               | µg/Kg     | 36 U         | 37 U      | 36 U          | NS        | 38 U      | 34 U      | 35 U      |
| Methoxychlor           | µg/Kg     | 180 U        | 180 U     | 180 U         | NS        | 190 U     | 170 U     | 180 U     |
| Endrin ketone          | µg/Kg     | 36 U         | 37 U      | 36 U          | NS        | 38 U      | 34 U      | 35 U      |
| Endrin aldehyde        | µg/Kg     | NS           | NS        | NS            | NS        | NS        | NS        | NS        |
| alpha-Chlordane        | µg/Kg     | 180 U        | 180 U     | 180 U         | NS        | 190 U     | 170 U     | 180 U     |
| gamma-Chlordane        | µg/Kg     | 180 U        | 180 U     | 180 U         | NS        | 190 U     | 170 U     | 180 U     |
| Toxaphene              | µg/Kg     | 380 U        | 370 U     | 360 U         | NS        | 380 U     | 340 U     | 350 U     |
| Aroclor-1016           | µg/Kg     | 180 U        | 180 U     | 180 U         | NS        | 190 U     | 170 U     | 180 U     |
| Aroclor-1221           | µg/Kg     | 180 U        | 180 U     | 180 U         | NS        | 190 U     | 170 U     | 180 U     |
| Aroclor-1232           | µg/Kg     | 180 U        | 180 U     | 180 U         | NS        | 190 U     | 170 U     | 180 U     |
| Aroclor-1242           | µg/Kg     | 180 U        | 180 U     | 180 U         | NS        | 190 U     | 170 U     | 180 U     |
| Aroclor-1248           | µg/Kg     | 180 U        | 180 U     | 180 U         | NS        | 190 U     | 170 U     | 180 U     |
| Aroclor-1254           | µg/Kg     | 360 U        | 370 U     | 360 U         | NS        | 380 U     | 340 U     | 350 U     |
| Aroclor-1260           | µg/Kg     | 360 U        | 370 U     | 360 U         | NS        | 380 U     | 340 U     | 350 U     |
| <b>HERBICIDES</b>      |           |              |           |               |           |           |           |           |
| 2,4-D                  | µg/Kg     | 56 U J       | 57 U J    | 57 U J        | NS        | 60 U J    | 54 U J    | 55 U J    |
| 2,4-DB                 | µg/Kg     | 56 U J       | 57 U J    | 57 U J        | NS        | 60 U J    | 54 U J    | 55 U J    |
| 2,4,5-T                | µg/Kg     | 6 U J        | 6 U J     | 6 U J         | NS        | 6 U J     | 5 U J     | 5 U J     |
| 2,4,5-TP (Silvex)      | µg/Kg     | 6 U J        | 6 U J     | 6 U J         | NS        | 6 U J     | 5 U J     | 5 U J     |
| Dalapon                | µg/Kg     | 140 U J      | 140 U J   | 140 U J       | NS        | 140 U J   | 130 U J   | 130 U J   |
| Dicamba                | µg/Kg     | 6 U J        | 6 U J     | 6 U J         | NS        | 6 U J     | 5 U J     | 5 U J     |
| Dichloroprop           | µg/Kg     | 56 U J       | 57 U J    | 57 U J        | NS        | 60 U J    | 54 U J    | 55 U J    |
| Dinoseb                | µg/Kg     | 28 U J       | 29 U J    | 28 U J        | NS        | 30 U J    | 27 U J    | 27 U J    |
| MCPA                   | µg/Kg     | 5600 U J     | 5700 U J  | 5700 U J      | NS        | 6000 U J  | 5400 U J  | 5500 U J  |
| MCPP                   | µg/Kg     | 5600 U J     | 5700 U J  | 5700 U J      | NS        | 24000 J   | 5400 U J  | 5500 U J  |
| <b>METALS</b>          |           |              |           |               |           |           |           |           |
| Aluminum               | mg/kg     | 17300        | 15100     | 18800         | NS        | 19000     | 15800     | 19800     |
| Antimony               | mg/kg     | 8.4 U J      | 10.3 U J  | 10.2 U J      | NS        | 12.3 U J  | 10.9 U J  | 8 U J     |
| Arsenic                | mg/kg     | 9.7 J        | 6.1 J     | 4.9 J         | NS        | 11.4 J    | 6 J       | 5 J       |
| Barium                 | mg/kg     | 145 J        | 83 J      | 56.9 J        | NS        | 190 J     | 82.8 J    | 73.6 J    |
| Beryllium              | mg/kg     | 0.94         | 0.85 J    | 1             | NS        | 1.1 J     | 1.1       | 0.93      |
| Cadmium                | mg/kg     | 3.1          | 2.8       | 2.9           | NS        | 4.2       | 2.8       | 2.5       |
| Calcium                | mg/kg     | 53800        | 43900     | 31000         | NS        | 6440      | 25400     | 28800     |
| Chromium               | mg/kg     | 30.4 J       | 26.5 J    | 28.3 J        | NS        | 39.3 J    | 21.8 J    | 29.9 J    |
| Cobalt                 | mg/kg     | 13.8         | 10.7      | 15.8          | NS        | 13.4      | 12.4      | 13        |
| Copper                 | mg/kg     | 56.9         | 41.2      | 25.6          | NS        | 109       | 29.2      | 34.4      |
| Iron                   | mg/kg     | 32200        | 34900     | 35400         | NS        | 129000    | 33000     | 31500     |
| Lead                   | mg/kg     | 83.1         | 54.8      | 14.1          | NS        | 244       | 13.3      | 41.3      |
| Magnesium              | mg/kg     | 16900        | 12000     | 8150          | NS        | 5390      | 5170      | 7460      |
| Manganese              | mg/kg     | 732          | 632       | 953           | NS        | 975       | 1050      | 602       |
| Mercury                | mg/kg     | 0.33         | 0.47      | 0.05 J        | NS        | 0.48      | 0.11      | 0.09      |
| Nickel                 | mg/kg     | 42.2         | 40.6      | 44.5          | NS        | 40.8      | 30.4      | 41.2      |
| Potassium              | mg/kg     | 2380         | 2150      | 2180          | NS        | 2930      | 19000     | 2270      |
| Selenium               | mg/kg     | 0.13 U J     | 0.16 U J  | 0.16 U J      | NS        | 0.18 U J  | 0.18 U J  | 0.18 U J  |
| Silver                 | mg/kg     | 5.8          | 4.3       | 1.5 U         | NS        | 1.8 U     | 1.8 U     | 1.2 U     |
| Sodium                 | mg/kg     | 707 R        | 466 R     | 115 R         | NS        | 94 U      | 83.1 U    | 91.9 R    |
| Thallium               | mg/kg     | 0.36 U       | 0.46 U    | 0.44 U        | NS        | 0.49 U    | 0.5 U     | 0.51 U    |
| Vanadium               | mg/kg     | 28.8         | 21.6      | 28            | NS        | 29.8      | 20        | 21.7      |
| Zinc                   | mg/kg     | 554          | 537       | 114 J         | NS        | 1080 J    | 121 J     | 240 J     |
| Cyanide                | mg/kg     | 0.64 U       | 0.68 U    | 0.85 U        | NS        | 0.71 U    | 0.64 U    | 0.62 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION<br>DEPTH<br>DATE<br>ES ID<br>LAB ID<br>UNITS | SOIL  | SOIL  | SOIL  | SOIL  | SOIL  | SOIL  | SOIL  | SOIL  |
|----------------------------|--|---|---|---|---|---|---|---|---|
|                            |  | B-12<br>2-4<br>11/07/91<br>S1107-40<br>148705 | B-12<br>6-8<br>11/07/91<br>S1107-41<br>148706 | B-13<br>0-2<br>11/07/91<br>S1107-42<br>148707 | B-13<br>2-4<br>11/07/91<br>S1107-43<br>148708 | B-13<br>6-8<br>11/07/91<br>S1107-44<br>148709 | B-14<br>0-2<br>11/08/91<br>S1108-45<br>148710 | B-14<br>2-4<br>11/08/91<br>S1108-48<br>148711 | B-14<br>2-4<br>11/08/91<br>S1108-47<br>148712 |
| <b>VOCs</b>                |  |   |   |   |   |   |   |   |   |
| Chloromethane              | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  |
| Bromomethane               | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  |
| Vinyl Chloride             | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  |
| Chloroethane               | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  |
| Methylene Chloride         | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 5 U   | 5 U   | 5 U   |
| Acetone                    | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  |
| Carbon Disulfide           | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| 1,1-Dichloroethene         | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| 1,1-Dichloroethane         | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| 1,2-Dichloroethene (total) | µg/Kg  | 2 J   | 5 U   | 6 U   | 5 U   | 5 U   | 4 J   | 3 J   | 16 J  |
| Chloroform                 | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| 1,2-Dichloroethane         | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| 2-Butanone                 | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  |
| 1,1,1-Trichloroethane      | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| Carbon Tetrachloride       | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| Vinyl Acetate              | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  |
| Bromodichloromethane       | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| 1,2-Dichloropropane        | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| cis-1,3-Dichloropropene    | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| Trichloroethene            | µg/Kg  | 2 J   | 2 J   | 6 U   | 5 U   | 5 U   | 7   | 3 J   | 8 J   |
| Dibromochloromethane       | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| 1,1,2-Trichloroethane      | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| Benzene                    | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| trans-1,3-Dichloropropene  | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| Bromoform                  | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| 4-Methyl-2-Pentanone       | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  |
| 2-Hexanone                 | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  |
| Tetrachloroethene          | µg/Kg  | 5 U   | 5 J   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| 1,1,2,2-Tetrachloroethane  | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| Toluene                    | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 1 J   | 2 J   | 5 U   | 5 U   |
| Chlorobenzene              | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| Ethylbenzene               | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| Styrene                    | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |
| Xylene (total)             | µg/Kg  | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 5 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX LOCATION | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   |
|------------------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | DEPTH           | B-12   | B-12   | B-13   | B-13   | B-13   | B-14   | B-14   | B-14   |
| UNITS                        | 2-4             | 6-8    | 0-2    | 2-4    | 6-8    | 0-2    | 2-4    | 2-4    | 2-4    |
|                              | DATE            | DATE   | DATE   | DATE   | DATE   | DATE   | DATE   | DATE   | DATE   |
|                              | ES ID           | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  |
|                              | LAB ID          | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID |
| VOCs                         |                 |        |        |        |        |        |        |        |        |
| SEMIVOLATILES                |                 |        |        |        |        |        |        |        |        |
| Phenol                       | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| bis(2-Chloroethyl) ether     | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2-Chlorophenol               | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 1,3-Dichlorobenzene          | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 1,4-Dichlorobenzene          | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Benzyl Alcohol               | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 1,2-Dichlorobenzene          | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2-Methylphenol               | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| bis(2-Chloroisopropyl) ether | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 4-Methylphenol               | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| N-Nitroso-di-n-propylamine   | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Hexachloroethane             | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Nitrobenzene                 | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Isophorone                   | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2-Nitrophenol                | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2,4-Dimethylphenol           | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Benzic acid                  | µg/Kg           | 3400 U | NS     | 4000 U | 3400 U | 3200 U | 3700 U | 3400 U | 3500 U |
| bis(2-Chloroethoxy) methane  | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2,4-Dichlorophenol           | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 1,2,4-Trichlorobenzene       | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Naphthalene                  | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 4-Chloroaniline              | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Hexachlorobutadiene          | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 4-Chloro-3-methylphenol      | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2-Methylnaphthalene          | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Hexachlorocyclopentadiene    | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2,4,6-Trichlorophenol        | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2,4,5-Trichlorophenol        | µg/Kg           | 3400 U | NS     | 4000 U | 3400 U | 3200 U | 3700 U | 3400 U | 3500 U |
| 2-Chloronaphthalene          | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2-Nitroaniline               | µg/Kg           | 3400 U | NS     | 4000 U | 3400 U | 3200 U | 3700 U | 3400 U | 3500 U |
| Dimethylphthalate            | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Acenaphthylene               | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2,6-Dinitrotoluene           | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 3-Nitroaniline               | µg/Kg           | 3400 U | NS     | 4000 U | 3400 U | 3200 U | 3700 U | 3400 U | 3500 U |
| Acenaphthene                 | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2,4-Dinitrophenol            | µg/Kg           | 3400 U | NS     | 4000 U | 3400 U | 3200 U | 3700 U | 3400 U | 3500 U |
| 4-Nitrophenol                | µg/Kg           | 3400 U | NS     | 4000 U | 3400 U | 3200 U | 3700 U | 3400 U | 3500 U |
| Dibenzofuran                 | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 2,4-Dinitrotoluene           | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Diethylphthalate             | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 4-Chlorophenyl-phenylether   | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Fluorene                     | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 4-Nitroaniline               | µg/Kg           | 3400 U | NS     | 4000 U | 3400 U | 3200 U | 3700 U | 3400 U | 3500 U |
| 4,6-Dinitro-2-methylphenol   | µg/Kg           | 3400 U | NS     | 4000 U | 3400 U | 3200 U | 3700 U | 3400 U | 3500 U |
| N-Nitrosodiphenylamine (1)   | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| 4-Bromophenyl-phenylether    | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Hexachlorobenzene            | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Pentachlorophenol            | µg/Kg           | 3400 U | NS     | 4000 U | 3400 U | 3200 U | 3700 U | 3400 U | 3500 U |
| Phenanthrene                 | µg/Kg           | 700 U  | NS     | 250 J  | 710 U  | 670 U  | 310 J  | 700 U  | 720 U  |
| Anthracene                   | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 71 J   | 700 U  | 720 U  |
| Carbazole                    | µg/Kg           | NS     | NS     | NS     | NS     | NS     | NS     | NS     | NS     |
| Di-n-butylphthalate          | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Fluoranthene                 | µg/Kg           | 700 U  | NS     | 240 J  | 710 U  | 670 U  | 290 J  | 700 U  | 720 U  |
| Pyrene                       | µg/Kg           | 700 U  | NS     | 280 J  | 710 U  | 670 U  | 240 J  | 700 U  | 720 U  |
| Butylbenzylphthalate         | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 780 U  | 700 U  | 720 U  |
| 3,3'-Dichlorobenzidine       | µg/Kg           | 1400 U | NS     | 1600 U | 1400 U | 1300 U | 1500 U | 1400 U | 1400 U |
| Benzo(a)anthracene           | µg/Kg           | 700 U  | NS     | 130 J  | 710 U  | 670 U  | 160 J  | 700 U  | 720 U  |
| Chrysene                     | µg/Kg           | 700 U  | NS     | 130 J  | 710 U  | 670 U  | 150 J  | 700 U  | 720 U  |
| bis(2-Ethylhexyl)phthalate   | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 1300   | 290 J  | 2000 J |
| Di-n-octylphthalate          | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Benzo(b)fluoranthene         | µg/Kg           | 700 U  | NS     | 140 J  | 710 U  | 670 U  | 110 J  | 700 U  | 720 U  |
| Benzo(k)fluoranthene         | µg/Kg           | 700 U  | NS     | 98 J   | 710 U  | 670 U  | 140 J  | 700 U  | 720 U  |
| Benzo(a)pyrene               | µg/Kg           | 700 U  | NS     | 130 J  | 710 U  | 670 U  | 140 J  | 700 U  | 720 U  |
| Indeno(1,2,3-cd)pyrene       | µg/Kg           | 700 U  | NS     | 610 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |
| Dibenz(a,h)anthracene        | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 780 U  | 700 U  | 720 U  |
| Benzo(g,h,i)perylene         | µg/Kg           | 700 U  | NS     | 810 U  | 710 U  | 670 U  | 760 U  | 700 U  | 720 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-12 | SOIL B-12 | SOIL B-13 | SOIL B-13 | SOIL B-13 | SOIL B-14 | SOIL B-14 | SOIL B-14 | SOIL B-14 |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DEPTH                  | 2-4       | 6-8       | 0-2       | 2-4       | 6-8       | 0-2       | 2-4       | 2-4       | 2-4       |
| DATE                   | 11/07/91  | 11/07/91  | 11/07/91  | 11/07/91  | 11/07/91  | 11/08/91  | 11/08/91  | 11/08/91  | 11/08/91  |
| ES ID                  | S1107-40  | S1107-41  | S1107-42  | S1107-43  | S1107-44  | S1108-45  | S1108-46  | S1108-47  | S1108-47  |
| LAB ID                 | 148705    | 148706    | 148707    | 148708    | 148709    | 148710    | 148711    | 148712    | 148712    |
| COMPOUND               | UNITS     |           |           |           |           |           |           |           |           |
| <b>VOCs</b>            |           |           |           |           |           |           |           |           |           |
| <b>PESTICIDES/PCBs</b> |           |           |           |           |           |           |           |           |           |
| alpha-BHC              | µg/Kg     | 17 U      | NS        | 20 U      | 17 U      | 16 U      | 18 U      | 17 U      | 17 U      |
| beta-BHC               | µg/Kg     | 17 U      | NS        | 20 U      | 17 U      | 16 U      | 18 U      | 17 U      | 17 U      |
| delta-BHC              | µg/Kg     | 17 U      | NS        | 20 U      | 17 U      | 16 U      | 18 U      | 17 U      | 17 U      |
| gamma-BHC (Lindane)    | µg/Kg     | 17 U      | NS        | 20 U      | 17 U      | 16 U      | 18 U      | 17 U      | 17 U      |
| Heptachlor             | µg/Kg     | 17 U      | NS        | 20 U      | 17 U      | 16 U      | 18 U      | 17 U      | 17 U      |
| Aldrin                 | µg/Kg     | 17 U      | NS        | 20 U      | 17 U      | 16 U      | 18 U      | 17 U      | 17 U      |
| Heptachlor epoxide     | µg/Kg     | 17 U      | NS        | 20 U      | 17 U      | 16 U      | 18 U      | 17 U      | 17 U      |
| Endosulfan I           | µg/Kg     | 17 U      | NS        | 20 U      | 17 U      | 16 U      | 18 U      | 17 U      | 17 U      |
| Dieldrin               | µg/Kg     | 34 U      | NS        | 40 U      | 34 U      | 32 U      | 37 U      | 34 U      | 35 U      |
| 4,4'-DDE               | µg/Kg     | 34 U      | NS        | 40 U      | 34 U      | 32 U      | 37 U      | 34 U      | 35 U      |
| Endrin                 | µg/Kg     | 34 U      | NS        | 40 U      | 34 U      | 32 U      | 37 U      | 34 U      | 35 U      |
| Endosulfan II          | µg/Kg     | 34 U      | NS        | 40 U      | 34 U      | 32 U      | 37 U      | 34 U      | 35 U      |
| 4,4'-DDD               | µg/Kg     | 34 U      | NS        | 40 U      | 34 U      | 32 U      | 37 U      | 34 U      | 35 U      |
| Endosulfan sulfate     | µg/Kg     | 34 U      | NS        | 40 U      | 34 U      | 32 U      | 37 U      | 34 U      | 35 U      |
| 4,4'-DDT               | µg/Kg     | 34 U      | NS        | 40 U      | 34 U      | 32 U      | 37 U      | 34 U      | 35 U      |
| Methoxychlor           | µg/Kg     | 170 U     | NS        | 200 U     | 170 U     | 160 U     | 180 U     | 170 U     | 170 U     |
| Endrin ketone          | µg/Kg     | 34 U      | NS        | 40 U      | 34 U      | 32 U      | 37 U      | 34 U      | 35 U      |
| Endrin aldehyde        | µg/Kg     | NS        | NS        | NS        | NS        | NS        | NS        | NS        | NS        |
| alpha-Chlordane        | µg/Kg     | 170 U     | NS        | 200 U     | 170 U     | 160 U     | 180 U     | 170 U     | 170 U     |
| gamma-Chlordane        | µg/Kg     | 170 U     | NS        | 200 U     | 170 U     | 160 U     | 180 U     | 170 U     | 170 U     |
| Toxaphene              | µg/Kg     | 340 U     | NS        | 400 U     | 340 U     | 320 U     | 370 U     | 340 U     | 350 U     |
| Aroclor - 1016         | µg/Kg     | 170 U     | NS        | 200 U     | 170 U     | 160 U     | 180 U     | 170 U     | 170 U     |
| Aroclor - 1221         | µg/Kg     | 170 U     | NS        | 200 U     | 170 U     | 160 U     | 180 U     | 170 U     | 170 U     |
| Aroclor - 1232         | µg/Kg     | 170 U     | NS        | 200 U     | 170 U     | 160 U     | 180 U     | 170 U     | 170 U     |
| Aroclor - 1242         | µg/Kg     | 170 U     | NS        | 200 U     | 170 U     | 160 U     | 180 U     | 170 U     | 170 U     |
| Aroclor - 1248         | µg/Kg     | 170 U     | NS        | 200 U     | 170 U     | 160 U     | 180 U     | 170 U     | 170 U     |
| Aroclor - 1254         | µg/Kg     | 340 U     | NS        | 400 U     | 340 U     | 320 U     | 370 U     | 340 U     | 350 U     |
| Aroclor - 1260         | µg/Kg     | 340 U     | NS        | 400 U     | 340 U     | 320 U     | 370 U     | 340 U     | 350 U     |
| <b>HERBICIDES</b>      |           |           |           |           |           |           |           |           |           |
| 2,4-D                  | µg/Kg     | 54 U J    | NS        | 61 U J    | 55 U J    | 52 U J    | 57 U J    | 54 U J    | 55 U J    |
| 2,4-DB                 | µg/Kg     | 54 U J    | NS        | 61 U J    | 55 U J    | 52 U J    | 57 U J    | 54 U J    | 55 U J    |
| 2,4,5-T                | µg/Kg     | 5 U J     | NS        | 6 U J     | 5 U J     | 5 U J     | 6 U J     | 5 U J     | 5 U J     |
| 2,4,5-TP (Silvex)      | µg/Kg     | 5 U J     | NS        | 6 U J     | 5 U J     | 5 U J     | 6 U J     | 5 U J     | 5 U J     |
| Dalapon                | µg/Kg     | 130 U J   | NS        | 150 U J   | 130 U J   | 120 U J   | 140 U J   | 130 U J   | 130 U J   |
| Dicamba                | µg/Kg     | 5 U J     | NS        | 6 U J     | 5 U J     | 5 U J     | 6 U J     | 5 U J     | 5 U J     |
| Dichloroprop           | µg/Kg     | 54 U J    | NS        | 61 U J    | 55 U J    | 52 U J    | 57 U J    | 54 U J    | 55 U J    |
| Dinoseb                | µg/Kg     | 27 U J    | NS        | 31 U J    | 27 U J    | 26 U J    | 29 U J    | 27 U J    | 27 U J    |
| MCPA                   | µg/Kg     | 5400 U J  | NS        | 6100 U J  | 5500 U J  | 5200 U J  | 5700 U J  | 5400 U J  | 5500 U J  |
| MCPP                   | µg/Kg     | 5400 U J  | NS        | 6100 U J  | 5500 U J  | 5200 U J  | 5700 U J  | 5400 U J  | 5500 U J  |
| <b>METALS</b>          |           |           |           |           |           |           |           |           |           |
| Aluminum               | mg/kg     | 14200     | NS        | 19900     | 14400     | 18200     | 12600     | 12400     | 12600     |
| Antimony               | mg/kg     | 10 U      | NS        | 12.5 U J  | 10.8 U J  | 8.4 U J   | 10.6 U J  | 10.8 U J  | 9.3 U J   |
| Arsenic                | mg/kg     | 4.2       | NS        | 5.4       | 4.7       | 5.6       | 5         | 4         | 4.6       |
| Barium                 | mg/kg     | 54.5      | NS        | 380       | 78.3      | 101       | 86.1      | 56.7      | 64        |
| Beryllium              | mg/kg     | 0.73 J    | NS        | 1.2       | 0.77 J    | 0.88      | 0.69 U    | 0.71 J    | 0.69 J    |
| Cadmium                | mg/kg     | 3.2 J     | NS        | 4.7 J     | 3.2 J     | 4.2 J     | 3.4 J     | 2.9 J     | 2.7       |
| Calcium                | mg/kg     | 53100     | NS        | 11400     | 61400     | 26700     | 49200     | 87500     | 93800     |
| Chromium               | mg/kg     | 21        | NS        | 30.9      | 22.7      | 27.7      | 22.1      | 19        | 18.9      |
| Cobalt                 | mg/kg     | 12.2      | NS        | 18.8      | 10.8      | 18.3      | 6.2 J     | 10.3      | 8.4 J     |
| Copper                 | mg/kg     | 23        | NS        | 55        | 25.9      | 23.4      | 43        | 22.3      | 21.1      |
| Iron                   | mg/kg     | 30900     | NS        | 37000     | 29500     | 36000     | 27000     | 24900     | 24600     |
| Lead                   | mg/kg     | 8.4 J     | NS        | 85.8      | 15.8      | 11.6 J    | 141       | 11.9 J    | 9.3       |
| Magnesium              | mg/kg     | 8410      | NS        | 5740      | 9940      | 7670      | 10300     | 8500      | 8280      |
| Manganese              | mg/kg     | 588       | NS        | 2740      | 572       | 470       | 330       | 520       | 557       |
| Mercury                | mg/kg     | 0.04 J    | NS        | 0.09 J    | 0.04 U    | 0.04 J    | 0.07 J    | 0.04 U    | 0.04 U    |
| Nickel                 | mg/kg     | 34        | NS        | 37.2      | 36.4      | 44        | 20.9      | 29.3      | 29        |
| Potassium              | mg/kg     | 1330      | NS        | 2420      | 2030      | 1790      | 1730      | 1480      | 1640      |
| Selenium               | mg/kg     | 1 U J     | NS        | 0.4 U J   | 1.5 U J   | 0.31 U J  | 0.33 U J  | 1.4 U J   | 1.5 U J   |
| Silver                 | mg/kg     | 5.4 J     | NS        | 1.9 U J   | 1.6 U J   | 1.3 U J   | 1.6 U J   | 1.8 U J   | 1.4 U J   |
| Sodium                 | mg/kg     | 264 R     | NS        | 132 R     | 140 R     | 116 R     | 96.4 R    | 114 R     | 118 R     |
| Thallium               | mg/kg     | 0.34 U    | NS        | 0.68 U    | 0.51 U    | 0.51 U    | 5.4 U     | 4.7 U     | 4.8 U     |
| Vanadium               | mg/kg     | 19        | NS        | 31.8      | 21.6      | 21.6      | 22.7      | 18.1      | 18.1      |
| Zinc                   | mg/kg     | 95.3      | NS        | 461       | 164       | 118       | 357       | 85.7      | 87.1      |
| Cyanide                | mg/kg     | 0.64 U    | NS        | 0.68 U    | 0.61 U    | 0.61 U    | 0.67 U    | 0.63 U    | 0.58 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION | SOIL     | SOIL           | SOIL     | SOIL          | SOIL     | SOIL          | SOIL           | SOIL      |      |
|----------------------------|-----------------|----------|----------------|----------|---------------|----------|---------------|----------------|-----------|------|
|                            |                 | B-14     | B-14           | B-15     | B-15          | B-15     | B-15          | B-15           | B-15      | B-15 |
|                            | DEPTH           | 4-6      | 4-6            | 0-2      | 0-2           | 2-4      | 2-4           | 2-4            | 2-4       |      |
|                            | DATE            | 11/08/91 | 11/08/91       | 11/08/91 | 11/08/91      | 11/08/91 | 11/08/91      | 11/08/91       | 11/08/91  |      |
|                            | ES ID           | S1108-48 | S1108-48RE (4) | S1108-49 | S1108-49DL(5) | S1108-50 | S1108-50DL(5) | S1108-50RE (4) | S1108-51  |      |
|                            | LAB ID          | 148713   | 148713         | 148714   | 148714        | 148715   | 148715        | 148715         | 148716    |      |
|                            | UNITS           |          |                |          |               |          |               |                |           |      |
| <b>VOCs</b>                |                 |          |                |          |               |          |               |                |           |      |
| Chloromethane              | µg/Kg           | 10 U J   | 10 U J         | 38 U     | 6300 U R      | 2200 U J | 27000 U R     | NS             | 29000 U J |      |
| Bromomethane               | µg/Kg           | 10 U J   | 10 U J         | 38 U     | 6300 U R      | 2200 U J | 27000 U R     | NS             | 29000 U J |      |
| Vinyl Chloride             | µg/Kg           | 10 U J   | 10 U J         | 38 U     | 6300 U R      | 2200 U J | 27000 U R     | NS             | 29000 U J |      |
| Chloroethane               | µg/Kg           | 10 U J   | 10 U J         | 36 U     | 6300 U R      | 2200 U J | 27000 U R     | NS             | 29000 U J |      |
| Methylene Chloride         | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| Acetone                    | µg/Kg           | 12 U J   | 10 U J         | 36 U     | 6300 U R      | 2200 U J | 27000 U R     | NS             | 8400 U J  |      |
| Carbon Disulfide           | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| 1,1-Dichloroethane         | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| 1,1-Dichloroethane         | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| 1,2-Dichloroethane (total) | µg/Kg           | 6 J      | 3 J            | 6600 R   | 29000         | 40000 J  | 38000 U R     | NS             | 79000 J   |      |
| Chloroform                 | µg/Kg           | 5 U J    | 5 U J          | 18 J     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| 1,2-Dichloroethane         | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| 2-Butanone                 | µg/Kg           | 10 U J   | 10 U J         | 38 U     | 6300 U R      | 2200 U J | 27000 U R     | NS             | 29000 U J |      |
| 1,1,1-Trichloroethane      | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| Carbon Tetrachloride       | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| Vinyl Acetate              | µg/Kg           | 10 U J   | 10 U J         | 38 U     | 6300 U R      | 2200 U J | 27000 U R     | NS             | 29000 U J |      |
| Bromodichloromethane       | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| 1,2-Dichloropropane        | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| cis-1,3-Dichloropropene    | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| Trichloroethane            | µg/Kg           | 8 J      | 5 J            | 13000 R  | 110000        | 580000 R | 470000 J      | NS             | 740000 R  |      |
| Dibromochloromethane       | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| 1,1,2-Trichloroethane      | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| Benzene                    | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| trans-1,3-Dichloropropene  | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| Bromoform                  | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| 4-Methyl-2-Pentanone       | µg/Kg           | 10 U J   | 10 U J         | 38 U     | 6300 U R      | 2200 U J | 27000 U R     | NS             | 29000 U J |      |
| 2-Hexanone                 | µg/Kg           | 10 U J   | 10 U J         | 38 U     | 6300 U R      | 2200 U J | 27000 U R     | NS             | 29000 U J |      |
| Tetrachloroethane          | µg/Kg           | 5 U J    | 5 U J          | 7 J      | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| 1,1,2,2-Tetrachloroethane  | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| Toluene                    | µg/Kg           | 3 U J    | 2 J            | 4 J      | 570 R         | 3700 J   | 4800 R        | NS             | 5700 J    |      |
| Chlorobenzene              | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| Ethylbenzene               | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 2000 J   | 14000 U R     | NS             | 2800 U J  |      |
| Styrene                    | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 1100 U J | 14000 U R     | NS             | 14000 U J |      |
| Xylene (total)             | µg/Kg           | 5 U J    | 5 U J          | 19 U     | 3100 U R      | 14000 J  | 15000 U R     | NS             | 17000 J   |      |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-14 | SOIL B-14     | SOIL B-15 | SOIL B-15     | SOIL B-15 | SOIL B-15     | SOIL B-15     | SOIL B-15 | SOIL B-15 |
|------------------------------|-----------|---------------|-----------|---------------|-----------|---------------|---------------|-----------|-----------|
| DEPTH                        | 4-6       | 4-6           | 0-2       | 0-2           | 2-4       | 2-4           | 2-4           | 2-4       | 2-4       |
| DATE                         | 11/08/91  | 11/08/91      | 11/08/91  | 11/08/91      | 11/08/91  | 11/08/91      | 11/08/91      | 11/08/91  | 11/08/91  |
| ES ID                        | S1108-48  | S1108-48RE(4) | S1108-49  | S1108-49DL(5) | S1108-50  | S1108-50DL(5) | S1108-50RE(4) | S1108-51  |           |
| LAB ID                       | 146713    | 146713        | 146714    | 146714        | 146715    | 146715        | 146715        | 146716    |           |
| COMPOUND                     | UNITS     |               |           |               |           |               |               |           |           |
| <b>VOCs</b>                  |           |               |           |               |           |               |               |           |           |
| <b>SEMIVOLATILES</b>         |           |               |           |               |           |               |               |           |           |
| Phenol                       | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| bis(2-Chloroethyl) ether     | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2-Chlorophenol               | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 1,3-Dichlorobenzene          | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 1,4-Dichlorobenzene          | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Benzyl Alcohol               | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 1,2-Dichlorobenzene          | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2-Methylphenol               | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| bis(2-Chloroisopropyl) ether | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 4-Methylphenol               | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| N-Nitroso-di-n-propylamine   | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Hexachloroethane             | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Nitrobenzene                 | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Isophorone                   | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2-Nitrophenol                | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2,4-Dimethylphenol           | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Benzic acid                  | µg/Kg     | 3300 U        | NS        | 3400 U        | NS        | 7700 U J      | NS            | 7700 U J  | 9500 U J  |
| bis(2-Chloroethoxy) methane  | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2,4-Dichlorophenol           | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 1,2,4-Trichlorobenzene       | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Naphthalene                  | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1900 U J      | NS            | 2000 U J  | 2500 U J  |
| 4-Chloroaniline              | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Hexachlorobutadiene          | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 4-Chloro-3-methylphenol      | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2-Methylnaphthalene          | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 2000 U J      | NS            | 2000 U J  | 2700 U J  |
| Hexachlorocyclopentadiene    | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2,4,6-Trichlorophenol        | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2,4,5-Trichlorophenol        | µg/Kg     | 3300 U        | NS        | 3400 U        | NS        | 7700 U J      | NS            | 7700 U J  | 9500 U J  |
| 2-Chloronaphthalene          | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2-Nitroaniline               | µg/Kg     | 3300 U        | NS        | 3400 U        | NS        | 7700 U J      | NS            | 7700 U J  | 9500 U J  |
| Dimethylphthalate            | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Acenaphthylene               | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2,6-Dinitrotoluene           | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 3-Nitroaniline               | µg/Kg     | 3300 U        | NS        | 3400 U        | NS        | 7700 U J      | NS            | 7700 U J  | 9500 U J  |
| Acenaphthene                 | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2,4-Dinitrophenol            | µg/Kg     | 3300 U        | NS        | 3400 U        | NS        | 7700 U J      | NS            | 7700 U J  | 9500 U J  |
| 4-Nitrophenol                | µg/Kg     | 3300 U        | NS        | 3400 U        | NS        | 7700 U J      | NS            | 7700 U J  | 9500 U J  |
| Dibenzofuran                 | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 2,4-Dinitrotoluene           | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Diethylphthalate             | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 4-Chlorophenyl-phenylether   | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Fluorene                     | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 4-Nitroaniline               | µg/Kg     | 3300 U        | NS        | 3400 U        | NS        | 7700 U J      | NS            | 7700 U J  | 9500 U J  |
| 4,6-Dinitro-2-methylphenol   | µg/Kg     | 3300 U        | NS        | 3400 U        | NS        | 7700 U J      | NS            | 7700 U J  | 9500 U J  |
| N-Nitrosodiphenylamine (1)   | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 4-Bromophenyl-phenylether    | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Hexachlorobenzene            | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Pentachlorophenol            | µg/Kg     | 3300 U        | NS        | 3400 U        | NS        | 7700 U J      | NS            | 7700 U J  | 9500 U J  |
| Phenanthrene                 | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 300 U J       | NS            | 290 U J   | 420 U J   |
| Anthracene                   | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Carbazole                    | µg/Kg     | NS            | NS        | NS            | NS        | NS            | NS            | NS        | NS        |
| Di-n-butylphthalate          | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Fluoranthene                 | µg/Kg     | 690 U         | NS        | 96 J          | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Pyrene                       | µg/Kg     | 690 U         | NS        | 100 J         | NS        | 1600 U J      | NS            | 180 J     | 230 J     |
| Butylbenzylphthalate         | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| 3,3'-Dichlorobenzidine       | µg/Kg     | 1400 U        | NS        | 1400 U        | NS        | 3200 U J      | NS            | 3200 U J  | 3900 U J  |
| Benzo(a)anthracene           | µg/Kg     | 690 U         | NS        | 97 J          | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Chrysene                     | µg/Kg     | 690 U         | NS        | 120 J         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| bis(2-Ethylhexyl)phthalate   | µg/Kg     | 690 U         | NS        | 460 J         | NS        | 450 J         | NS            | 360 J     | 940 J     |
| Di-n-octylphthalate          | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Benzo(b)fluoranthene         | µg/Kg     | 690 U         | NS        | 140 J         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Benzo(k)fluoranthene         | µg/Kg     | 690 U         | NS        | 140 J         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Benzo(a)pyrene               | µg/Kg     | 690 U         | NS        | 150 J         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Indeno(1,2,3-cd)pyrene       | µg/Kg     | 690 U         | NS        | 180 J         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Dibenz(a,h)anthracene        | µg/Kg     | 690 U         | NS        | 700 U         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |
| Benzo(g,h,i)perylene         | µg/Kg     | 690 U         | NS        | 190 J         | NS        | 1600 U J      | NS            | 1600 U J  | 2000 U J  |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-14 | SOIL B-14 | SOIL B-15     | SOIL B-15 | SOIL B-15     | SOIL B-15 | SOIL B-15     | SOIL B-15     | SOIL B-15 |
|------------------------|-----------|-----------|---------------|-----------|---------------|-----------|---------------|---------------|-----------|
| DEPTH                  | 4-6       | 4-6       | 0-2           | 0-2       | 2-4           | 2-4       | 2-4           | 2-4           | 2-4       |
| DATE                   | 11/08/91  | 11/08/91  | 11/08/91      | 11/08/91  | 11/08/91      | 11/08/91  | 11/08/91      | 11/08/91      | 11/08/91  |
| ES ID                  | 1)        | S1108-48  | S1108-48RE(4) | S1108-49  | S1108-49DL(5) | S1108-50  | S1108-50DL(5) | S1108-50RE(4) | S1108-51  |
| LAB ID                 |           | 148713    | 148713        | 148714    | 148714        | 148715    | 148715        | 148715        | 148716    |
| COMPOUND               | UNITS     |           |               |           |               |           |               |               |           |
| <b>VOCs</b>            |           |           |               |           |               |           |               |               |           |
| <b>PESTICIDES/PCBs</b> |           |           |               |           |               |           |               |               |           |
| alpha-BHC              | µg/Kg     | 17 U      | NS            | 17 U      | NS            | 19 U      | NS            | NS            | 19 U      |
| beta-BHC               | µg/Kg     | 17 U      | NS            | 17 U      | NS            | 19 U      | NS            | NS            | 19 U      |
| delta-BHC              | µg/Kg     | 17 U      | NS            | 17 U      | NS            | 19 U      | NS            | NS            | 19 U      |
| gamma-BHC (Lindane)    | µg/Kg     | 17 U      | NS            | 17 U      | NS            | 19 U      | NS            | NS            | 19 U      |
| Heptachlor             | µg/Kg     | 17 U      | NS            | 17 U      | NS            | 19 U      | NS            | NS            | 19 U      |
| Aldrin                 | µg/Kg     | 17 U      | NS            | 17 U      | NS            | 19 U      | NS            | NS            | 19 U      |
| Heptachlor epoxide     | µg/Kg     | 17 U      | NS            | 17 U      | NS            | 19 U      | NS            | NS            | 19 U      |
| Endosulfan I           | µg/Kg     | 17 U      | NS            | 17 U      | NS            | 19 U      | NS            | NS            | 19 U      |
| Dieldrin               | µg/Kg     | 33 U      | NS            | 34 U      | NS            | 39 U      | NS            | NS            | 36 U      |
| 4,4'-DDE               | µg/Kg     | 33 U      | NS            | 250       | NS            | 39 U      | NS            | NS            | 38 U      |
| Endrin                 | µg/Kg     | 33 U      | NS            | 34 U      | NS            | 39 U      | NS            | NS            | 38 U      |
| Endosulfan II          | µg/Kg     | 33 U      | NS            | 34 U      | NS            | 39 U      | NS            | NS            | 38 U      |
| 4,4'-DDD               | µg/Kg     | 33 U      | NS            | 34 U      | NS            | 39 U      | NS            | NS            | 38 U      |
| Endosulfan sulfate     | µg/Kg     | 33 U      | NS            | 34 U      | NS            | 39 U      | NS            | NS            | 38 U      |
| 4,4'-DDT               | µg/Kg     | 33 U      | NS            | 34 U      | NS            | 39 U      | NS            | NS            | 38 U      |
| Methoxychlor           | µg/Kg     | 170 U     | NS            | 170 U     | NS            | 190 U     | NS            | NS            | 190 U     |
| Endrin ketone          | µg/Kg     | 33 U      | NS            | 34 U      | NS            | 39 U      | NS            | NS            | 38 U      |
| Endrin aldehyde        | µg/Kg     | NS        | NS            | NS        | NS            | NS        | NS            | NS            | NS        |
| alpha-Chlordane        | µg/Kg     | 170 U     | NS            | 170 U     | NS            | 190 U     | NS            | NS            | 190 U     |
| gamma-Chlordane        | µg/Kg     | 170 U     | NS            | 170 U     | NS            | 190 U     | NS            | NS            | 190 U     |
| Toxaphene              | µg/Kg     | 330 U     | NS            | 340 U     | NS            | 390 U     | NS            | NS            | 380 U     |
| Aroclor-1016           | µg/Kg     | 170 U     | NS            | 170 U     | NS            | 190 U     | NS            | NS            | 190 U     |
| Aroclor-1221           | µg/Kg     | 170 U     | NS            | 170 U     | NS            | 190 U     | NS            | NS            | 190 U     |
| Aroclor-1232           | µg/Kg     | 170 U     | NS            | 170 U     | NS            | 190 U     | NS            | NS            | 190 U     |
| Aroclor-1242           | µg/Kg     | 170 U     | NS            | 170 U     | NS            | 190 U     | NS            | NS            | 190 U     |
| Aroclor-1248           | µg/Kg     | 170 U     | NS            | 170 U     | NS            | 190 U     | NS            | NS            | 190 U     |
| Aroclor-1254           | µg/Kg     | 330 U     | NS            | 340 U     | NS            | 390 U     | NS            | NS            | 380 U     |
| Aroclor-1260           | µg/Kg     | 330 U     | NS            | 330 J     | NS            | 370 J     | NS            | NS            | 430       |
| <b>HERBICIDES</b>      |           |           |               |           |               |           |               |               |           |
| 2,4-D                  | µg/Kg     | 53 U J    | NS            | 53 U J    | NS            | 60 U J    | NS            | NS            | 59 U J    |
| 2,4-DB                 | µg/Kg     | 53 U J    | NS            | 53 U J    | NS            | 60 U J    | NS            | NS            | 59 U J    |
| 2,4,5-T                | µg/Kg     | 5 U J     | NS            | 5 U J     | NS            | 6 U J     | NS            | NS            | 6 U J     |
| 2,4,5-TP (Silvex)      | µg/Kg     | 5 U J     | NS            | 5 U J     | NS            | 6 U J     | NS            | NS            | 6 U J     |
| Dalapon                | µg/Kg     | 130 U J   | NS            | 130 U J   | NS            | 140 U J   | NS            | NS            | 140 U J   |
| Dicamba                | µg/Kg     | 5 U J     | NS            | 5 U J     | NS            | 6 U J     | NS            | NS            | 6 U J     |
| Dichloroprop           | µg/Kg     | 53 U J    | NS            | 53 U J    | NS            | 60 U J    | NS            | NS            | 59 U J    |
| Dinoseb                | µg/Kg     | 26 U J    | NS            | 26 U J    | NS            | 30 U J    | NS            | NS            | 30 U J    |
| MCPA                   | µg/Kg     | 5300 U J  | NS            | 5300 U J  | NS            | 6000 U J  | NS            | NS            | 5900 U J  |
| MCPP                   | µg/Kg     | 5300 U J  | NS            | 5300 U J  | NS            | 6000 U J  | NS            | NS            | 5900 U J  |
| <b>METALS</b>          |           |           |               |           |               |           |               |               |           |
| Aluminum               | mg/kg     | 18100     | NS            | 18100     | NS            | 13900     | NS            | NS            | 18100     |
| Antimony               | mg/kg     | 10.5 U J  | NS            | 11 U J    | NS            | 10.8 J    | NS            | NS            | 12.1 U J  |
| Arsenic                | mg/kg     | 2.7       | NS            | 4.1       | NS            | 5.5 U     | NS            | NS            | 5         |
| Barium                 | mg/kg     | 55.8      | NS            | 121       | NS            | 75.7      | NS            | NS            | 109       |
| Beryllium              | mg/kg     | 0.87 J    | NS            | 0.89 J    | NS            | 0.78 J    | NS            | NS            | 1 J       |
| Cadmium                | mg/kg     | 3.7 J     | NS            | 3.4 J     | NS            | 3.2 J     | NS            | NS            | 3.4 J     |
| Calcium                | mg/kg     | 29700     | NS            | 30900     | NS            | 50000 J   | NS            | NS            | 10500 J   |
| Chromium               | mg/kg     | 28.2      | NS            | 30.5      | NS            | 22        | NS            | NS            | 26.5      |
| Cobalt                 | mg/kg     | 14.1      | NS            | 14        | NS            | 10.1      | NS            | NS            | 13.7      |
| Copper                 | mg/kg     | 15.6      | NS            | 38.6      | NS            | 25.4      | NS            | NS            | 28.9      |
| Iron                   | mg/kg     | 37800     | NS            | 35300     | NS            | 27700     | NS            | NS            | 32800     |
| Lead                   | mg/kg     | 5.4 J     | NS            | 40.7      | NS            | 27        | NS            | NS            | 33.1      |
| Magnesium              | mg/kg     | 7770      | NS            | 8190      | NS            | 6190      | NS            | NS            | 5640      |
| Manganese              | mg/kg     | 483       | NS            | 476       | NS            | 653       | NS            | NS            | 600       |
| Mercury                | mg/kg     | 0.04 U    | NS            | 0.06 J    | NS            | 0.05 J    | NS            | NS            | 0.06 J    |
| Nickel                 | mg/kg     | 41        | NS            | 53        | NS            | 37        | NS            | NS            | 35.6      |
| Potassium              | mg/kg     | 1770      | NS            | 1910      | NS            | 1280      | NS            | NS            | 2200      |
| Selenium               | mg/kg     | 1.6 U J   | NS            | 0.31 U J  | NS            | 1.4 U J   | NS            | NS            | 1.5 U J   |
| Silver                 | mg/kg     | 1.6 U J   | NS            | 1.7 U J   | NS            | 1.6 U J   | NS            | NS            | 1.8 U J   |
| Sodium                 | mg/kg     | 116 R     | NS            | 97.3 R    | NS            | 81.1 U    | NS            | NS            | 92.4 U    |
| Thallium               | mg/kg     | 0.52 U    | NS            | 0.52 U    | NS            | 0.48 U    | NS            | NS            | 0.49 U    |
| Vanadium               | mg/kg     | 21.8      | NS            | 23.3      | NS            | 21        | NS            | NS            | 28.6      |
| Zinc                   | mg/kg     | 99        | NS            | 117       | NS            | 123       | NS            | NS            | 106       |
| Cyanide                | mg/kg     | 0.6 U     | NS            | 0.47 U    | NS            | 0.59 U    | NS            | NS            | 0.68 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | SOIL B-15         | SOIL B-15 | SOIL B-15     | SOIL B-16 | SOIL B-16 | SOIL B-16 | SOIL B-16 | SOIL B-17 | SOIL B-17 |
|----------------------------|-------------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| DEPTH                      | 2-4               | 0-8       | 0-8           | 0-2       | 2-4       | 0-8       | 0-2       | 0-2       | 0-2       |
| DATE                       | 11/08/91          | 11/08/91  | 11/08/91      | 11/12/91  | 11/12/91  | 11/12/91  | 11/12/91  | 11/13/91  | 11/13/91  |
| ES ID                      | (1) S1108-51DL(5) | S1108-52  | S1108-52DL(5) | S1112-53  | S1112-54  | S1112-55  | S1113-56  | S1113-56R | S1113-56R |
| LAB ID                     | 148716            | 148717    | 148717        | 148925    | 148926    | 148927    | 148928    | 148928    | 148928    |
| COMPOUND                   | UNITS             |           |               |           |           |           |           |           |           |
| <b>VOCs</b>                |                   |           |               |           |           |           |           |           |           |
| Chloromethane              | µg/Kg             | 48000 U R | 1400 U J      | 3400 U R  | 12 U      | 11 U      | 10 U      | 11 U J    | 11 U J    |
| Bromomethane               | µg/Kg             | 48000 U R | 1400 U J      | 3400 U R  | 12 U      | 11 U      | 10 U      | 11 U J    | 11 U J    |
| Vinyl Chloride             | µg/Kg             | 48000 U R | 1400 U J      | 3400 U R  | 12 U      | 11 U      | 10 U      | 11 U J    | 11 U J    |
| Chloroethane               | µg/Kg             | 48000 U R | 1400 U J      | 3400 U R  | 12 U      | 11 U      | 10 U      | 11 U J    | 11 U J    |
| Methylene Chloride         | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 6 U J     |
| Acetone                    | µg/Kg             | 48000 U R | 1400 U J      | 3400 U R  | 12 U      | 15 U      | 27 U      | 11 U J    | 16 U J    |
| Carbon Disulfide           | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| 1,1-Dichloroethane         | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| 1,1-Dichloroethane         | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| 1,2-Dichloroethane (total) | µg/Kg             | 69000 U R | 11000 J       | 19000 R   | 8 U       | 8 U       | 5 U       | 5 U J     | 5 U J     |
| Chloroform                 | µg/Kg             | 5300 R    | 680 U J       | 1700 U R  | 6 U       | 2 J       | 5 U       | 5 U J     | 5 U J     |
| 1,2-Dichloroethane         | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| 2-Butanone                 | µg/Kg             | 48000 U R | 1400 U J      | 3400 U R  | 12 U      | 11 U      | 10 U      | 11 U J    | 11 U J    |
| 1,1,1-Trichloroethane      | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| Carbon Tetrachloride       | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| Vinyl Acetate              | µg/Kg             | 48000 U R | 1400 U J      | 3400 U R  | 12 U      | 11 U      | 10 U      | 11 U J    | 11 U J    |
| Bromodichloromethane       | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| 1,2-Dichloropropane        | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| cis-1,3-Dichloropropene    | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| Trichloroethene            | µg/Kg             | 54000 J   | 29000 R       | 38000 J   | 6 U       | 6 U       | 7         | 9 J       | 9 J       |
| Dibromochloromethane       | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| 1,1,2-Trichloroethane      | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| Benzene                    | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| trans-1,3-Dichloropropene  | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| Bromoform                  | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| 4-Methyl-2-Pentanone       | µg/Kg             | 48000 U R | 1400 U J      | 3400 U R  | 12 U      | 11 U      | 10 U      | 11 U J    | 11 U J    |
| 2-Hexanone                 | µg/Kg             | 48000 U R | 1400 U J      | 3400 U R  | 12 U      | 11 U      | 10 U      | 11 U J    | 11 U J    |
| Tetrachloroethene          | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| 1,1,2,2-Tetrachloroethane  | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| Toluene                    | µg/Kg             | 6900 R    | 850 J         | 970 R     | 8 U       | 8 U       | 6         | 5 U J     | 1 J       |
| Chlorobenzene              | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| Ethylbenzene               | µg/Kg             | 24000 U R | 800 J         | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| Styrene                    | µg/Kg             | 24000 U R | 680 U J       | 1700 U R  | 6 U       | 6 U       | 5 U       | 5 U J     | 5 U J     |
| Xylene (total)             | µg/Kg             | 18000 R   | 4900 J        | 12000 R   | 6 U       | 6 U       | 28        | 5 U J     | 5 U J     |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL              | SOIL     | SOIL          | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL      |
|------------------------------|-------------------|----------|---------------|----------|----------|----------|----------|----------|-----------|
| DEPTH                        | B-15              | B-15     | B-15          | B-16     | B-16     | B-16     | B-16     | B-17     | B-17      |
| DATE                         | 11/08/91          | 11/08/91 | 11/08/91      | 11/12/91 | 11/12/91 | 11/12/91 | 11/12/91 | 11/13/91 | 11/13/91  |
| ES ID                        | (1) S1108-51DL(5) | S1108-52 | S1108-52DL(5) | S1112-53 | S1112-54 | S1112-55 | S1112-56 | S1113-56 | S1113-56R |
| LAB ID                       | 148716            | 148717   | 148717        | 148925   | 148926   | 148927   | 148928   | 148928   | 148928    |
| COMPOUND                     | UNITS             |          |               |          |          |          |          |          |           |
| VOCs                         |                   |          |               |          |          |          |          |          |           |
| SEMI-VOLATILES               |                   |          |               |          |          |          |          |          |           |
| Phenol                       | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| bis(2-Chloroethyl) ether     | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2-Chlorophenol               | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 1,3-Dichlorobenzene          | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 1,4-Dichlorobenzene          | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Benzyl Alcohol               | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 1,2-Dichlorobenzene          | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2-Methylphenol               | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| bis(2-Chloroisopropyl) ether | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 4-Methylphenol               | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| N-Nitroso-di-n-propylamine   | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Hexachloroethane             | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Nitrobenzene                 | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Isophorone                   | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2-Nitrophenol                | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2,4-Dimethylphenol           | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Benzic acid                  | µg/Kg             | 9500 U J | 4600 U J      | NS       | 3900 U   | 3600 U   | 3400 U   | 3600 U   | NS        |
| bis(2-Chloroethoxy) methane  | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2,4-Dichlorophenol           | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 1,2,4-Trichlorobenzene       | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Naphthalene                  | µg/Kg             | 2400 J   | 1200 J        | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 4-Chloroaniline              | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Hexachlorobutadiene          | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 4-Chloro-3-methylphenol      | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2-Methylnaphthalene          | µg/Kg             | 2600 J   | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Hexachlorocyclopentadiene    | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2,4,6-Trichlorophenol        | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2,4,5-Trichlorophenol        | µg/Kg             | 9500 U J | 4600 U J      | NS       | 3900 U   | 3600 U   | 3400 U   | 3600 U   | NS        |
| 2-Chloronaphthalene          | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2-Nitroaniline               | µg/Kg             | 9500 U J | 4600 U J      | NS       | 3900 U   | 3600 U   | 3400 U   | 3600 U   | NS        |
| Dimethylphthalate            | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Acenaphthylene               | µg/Kg             | 2000 U J | 950 U J       | NS       | 510 J    | 730 U    | 710 U    | 740 U    | NS        |
| 2,6-Dinitrotoluene           | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 3-Nitroaniline               | µg/Kg             | 9500 U J | 4600 U J      | NS       | 3900 U   | 3600 U   | 3400 U   | 3600 U   | NS        |
| Acenaphthene                 | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2,4-Dinitrophenol            | µg/Kg             | 9500 U J | 4600 U J      | NS       | 3900 U   | 3600 U   | 3400 U   | 3600 U   | NS        |
| 4-Nitrophenol                | µg/Kg             | 9500 U J | 4600 U J      | NS       | 3900 U   | 3600 U   | 3400 U   | 3600 U   | NS        |
| Dibenzofuran                 | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 2,4-Dinitrotoluene           | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Diethylphthalate             | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 4-Chlorophenyl-phenyl ether  | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Fluorene                     | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 4-Nitroaniline               | µg/Kg             | 9500 U J | 4600 U J      | NS       | 3900 U   | 3600 U   | 3400 U   | 3600 U   | NS        |
| 4,6-Dinitro-2-methylphenol   | µg/Kg             | 9500 U J | 4600 U J      | NS       | 3900 U   | 3600 U   | 3400 U   | 3600 U   | NS        |
| N-Nitrosodiphenylamine (1)   | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 4-Bromophenyl-phenyl ether   | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Hexachlorobenzene            | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Pentachlorophenol            | µg/Kg             | 9500 U J | 4600 U J      | NS       | 3900 U   | 3600 U   | 3400 U   | 3600 U   | NS        |
| Phenanthrene                 | µg/Kg             | 400 J    | 170 J         | NS       | 170 J    | 730 U    | 710 U    | 740 U    | NS        |
| Anthracene                   | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Carbazole                    | µg/Kg             | NS       | NS            | NS       | NS       | NS       | NS       | NS       | NS        |
| Di-n-butylphthalate          | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Fluoranthene                 | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Pyrene                       | µg/Kg             | 2000 U J | 150 J         | NS       | 1800 U   | 730 U    | 710 U    | 740 U    | NS        |
| Butylbenzyl phthalate        | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| 3,3'-Dichlorobenzidine       | µg/Kg             | 3900 U J | 1900 U J      | NS       | 1600 U   | 1500 U   | 1400 U   | 1500 U   | NS        |
| Benzo(a)anthracene           | µg/Kg             | 2000 U J | 950 U J       | NS       | 1300 U   | 730 U    | 710 U    | 740 U    | NS        |
| Chrysene                     | µg/Kg             | 2000 U J | 950 U J       | NS       | 1800 U   | 730 U    | 710 U    | 740 U    | NS        |
| bis(2-Ethylhexyl) phthalate  | µg/Kg             | 790 J    | 110 J         | NS       | 800 U    | 730 U    | 700 J    | 740 U    | NS        |
| Di-n-octylphthalate          | µg/Kg             | 2000 U J | 950 U J       | NS       | 800 U    | 730 U    | 710 U    | 740 U    | NS        |
| Benzo(b)fluoranthene         | µg/Kg             | 2000 U J | 950 U J       | NS       | 740 J    | 730 U    | 710 U    | 740 U    | NS        |
| Benzo(k)fluoranthene         | µg/Kg             | 2000 U J | 950 U J       | NS       | 870 U    | 730 U    | 710 U    | 740 U    | NS        |
| Benzo(a)pyrene               | µg/Kg             | 2000 U J | 950 U J       | NS       | 1500 U   | 730 U    | 710 U    | 740 U    | NS        |
| Indeno(1,2,3-cd)pyrene       | µg/Kg             | 2000 U J | 950 U J       | NS       | 660 J    | 730 U    | 710 U    | 740 U    | NS        |
| Dibenz(a,h)anthracene        | µg/Kg             | 2000 U J | 950 U J       | NS       | 330 J    | 730 U    | 710 U    | 740 U    | NS        |
| Benzo(g,h,i)perylene         | µg/Kg             | 2000 U J | 950 U J       | NS       | 880 U    | 730 U    | 710 U    | 740 U    | NS        |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-15         | SOIL B-15 | SOIL B-15     | SOIL B-16 | SOIL B-16 | SOIL B-16 | SOIL B-16 | SOIL B-17 | SOIL B-17 |
|------------------------|-------------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| DEPTH                  | 2-4               | 6-8       | 6-8           | 0-2       | 2-4       | 6-8       | 0-2       | 0-2       | 0-2       |
| DATE                   | 11/08/91          | 11/08/91  | 11/08/91      | 11/12/91  | 11/12/91  | 11/12/91  | 11/12/91  | 11/13/91  | 11/13/91  |
| ES ID                  | (1) S1108-51DL(5) | S1108-52  | S1108-52DL(5) | S1112-53  | S1112-54  | S1112-55  | S1113-56  | S1113-56R | S1113-56R |
| LAB ID                 | 148716            | 148717    | 148717        | 148925    | 148926    | 148927    | 148928    | 148928    | 148928    |
| COMPOUND               | UNITS             |           |               |           |           |           |           |           |           |
| <b>VOCs</b>            |                   |           |               |           |           |           |           |           |           |
| <b>PESTICIDES/PCBs</b> |                   |           |               |           |           |           |           |           |           |
| alpha-BHC              | µg/Kg             | NS        | 17 U J        | NS        | 19 U      | 18 U      | 17 U      | 18 U      | NS        |
| beta-BHC               | µg/Kg             | NS        | 17 U J        | NS        | 19 U      | 18 U      | 17 U      | 18 U      | NS        |
| delta-BHC              | µg/Kg             | NS        | 17 U J        | NS        | 19 U      | 18 U      | 17 U      | 18 U      | NS        |
| gamma-BHC (Lindane)    | µg/Kg             | NS        | 17 U J        | NS        | 19 U      | 18 U      | 17 U      | 18 U      | NS        |
| Heptachlor             | µg/Kg             | NS        | 17 U J        | NS        | 19 U      | 18 U      | 17 U      | 18 U      | NS        |
| Aldrin                 | µg/Kg             | NS        | 17 U J        | NS        | 19 U      | 18 U      | 17 U      | 18 U      | NS        |
| Heptachlor epoxide     | µg/Kg             | NS        | 17 U J        | NS        | 19 U      | 18 U      | 17 U      | 18 U      | NS        |
| Endosulfan I           | µg/Kg             | NS        | 17 U J        | NS        | 19 U      | 18 U      | 17 U      | 18 U      | NS        |
| Dieldrin               | µg/Kg             | NS        | 35 U J        | NS        | 39 U      | 36 U      | 34 U      | 36 U      | NS        |
| 4,4'-DDE               | µg/Kg             | NS        | 69 J          | NS        | 21 J      | 36 U      | 34 U      | 39        | NS        |
| Endrin                 | µg/Kg             | NS        | 35 U J        | NS        | 39 U      | 36 U      | 34 U      | 36 U      | NS        |
| Endosulfan II          | µg/Kg             | NS        | 35 U J        | NS        | 39 U      | 36 U      | 34 U      | 36 U      | NS        |
| 4,4'-DDD               | µg/Kg             | NS        | 35 U J        | NS        | 39 U      | 36 U      | 34 U      | 36 U      | NS        |
| Endosulfan sulfate     | µg/Kg             | NS        | 35 U J        | NS        | 39 U      | 36 U      | 34 U      | 36 U      | NS        |
| 4,4'-DDT               | µg/Kg             | NS        | 35 U J        | NS        | 39 U      | 36 U      | 34 U      | 36 U      | NS        |
| Methoxychlor           | µg/Kg             | NS        | 170 U J       | NS        | 190 U     | 180 U     | 170 U     | 180 U     | NS        |
| Endrin ketone          | µg/Kg             | NS        | 35 U J        | NS        | 39 U      | 36 U      | 34 U      | 36 U      | NS        |
| Endrin aldehyde        | µg/Kg             | NS        | NS            | NS        | NS        | NS        | NS        | NS        | NS        |
| alpha-Chlordane        | µg/Kg             | NS        | 170 U J       | NS        | 190 U     | 180 U     | 170 U     | 180 U     | NS        |
| gamma-Chlordane        | µg/Kg             | NS        | 170 U J       | NS        | 190 U     | 180 U     | 170 U     | 180 U     | NS        |
| Toxaphene              | µg/Kg             | NS        | 350 U J       | NS        | 390 U     | 360 U     | 340 U     | 360 U     | NS        |
| Aroclor-1016           | µg/Kg             | NS        | 170 U J       | NS        | 190 U     | 180 U     | 170 U     | 180 U     | NS        |
| Aroclor-1221           | µg/Kg             | NS        | 170 U J       | NS        | 190 U     | 180 U     | 170 U     | 180 U     | NS        |
| Aroclor-1232           | µg/Kg             | NS        | 170 U J       | NS        | 190 U     | 180 U     | 170 U     | 180 U     | NS        |
| Aroclor-1242           | µg/Kg             | NS        | 170 U J       | NS        | 190 U     | 180 U     | 170 U     | 180 U     | NS        |
| Aroclor-1248           | µg/Kg             | NS        | 170 U J       | NS        | 190 U     | 180 U     | 170 U     | 180 U     | NS        |
| Aroclor-1254           | µg/Kg             | NS        | 350 U J       | NS        | 390 U     | 360 U     | 340 U     | 360 U     | NS        |
| Aroclor-1280           | µg/Kg             | NS        | 230 J         | NS        | 390 U     | 360 U     | 340 U     | 360 U     | NS        |
| <b>HERBICIDES</b>      |                   |           |               |           |           |           |           |           |           |
| 2,4-D                  | µg/Kg             | NS        | 54 U J        | NS        | 59 U J    | 55 U J    | 54 U J    | 56 U J    | NS        |
| 2,4-DB                 | µg/Kg             | NS        | 54 U J        | NS        | 59 U J    | 55 U J    | 54 U J    | 56 U J    | NS        |
| 2,4,5-T                | µg/Kg             | NS        | 5 U J         | NS        | 6 U J     | 6 U J     | 5 U J     | 6 U J     | NS        |
| 2,4,5-TP (Silvex)      | µg/Kg             | NS        | 5 U J         | NS        | 6 U J     | 6 U J     | 5 U J     | 6 U J     | NS        |
| Dalapon                | µg/Kg             | NS        | 130 U J       | NS        | 140 U J   | 130 U J   | 130 U J   | 130 U J   | NS        |
| Dicamba                | µg/Kg             | NS        | 5 U J         | NS        | 6 U J     | 6 U J     | 5 U J     | 6 U J     | NS        |
| Dichloroprop           | µg/Kg             | NS        | 54 U J        | NS        | 59 U J    | 55 U J    | 54 U J    | 56 U J    | NS        |
| Dinoseb                | µg/Kg             | NS        | 27 U J        | NS        | 30 U J    | 28 U J    | 27 U J    | 28 U J    | NS        |
| MCPA                   | µg/Kg             | NS        | 5400 U J      | NS        | 5900 U J  | 5500 U J  | 5400 U J  | 5600 U J  | NS        |
| MCPP                   | µg/Kg             | NS        | 5400 U J      | NS        | 5900 U J  | 5500 U J  | 5400 U J  | 5600 U J  | NS        |
| <b>METALS</b>          |                   |           |               |           |           |           |           |           |           |
| Aluminum               | mg/kg             | NS        | 16600         | NS        | 12700     | 19800     | 19300     | 10900     | NS        |
| Antimony               | mg/kg             | NS        | 9.3 U J       | NS        | 8.5 U J   | 10.9 U J  | 8.4 U J   | 12.3 J    | NS        |
| Arsenic                | mg/kg             | NS        | 3.4           | NS        | 5.1       | 4.4       | 3.8       | 7         | NS        |
| Barium                 | mg/kg             | NS        | 49.9          | NS        | 91.1      | 101       | 64.8      | 82.5      | NS        |
| Beryllium              | mg/kg             | NS        | 0.81 J        | NS        | 0.78 J    | 1         | 0.96      | 0.74 U    | NS        |
| Cadmium                | mg/kg             | NS        | 3.7 J         | NS        | 1.8       | 3.2 J     | 2.9 J     | 8.2 J     | NS        |
| Calcium                | mg/kg             | NS        | 12400         | NS        | 26100     | 27800     | 43000     | 74700     | NS        |
| Chromium               | mg/kg             | NS        | 26.7          | NS        | 15.9      | 26.6      | 27.4      | 28.1      | NS        |
| Cobalt                 | mg/kg             | NS        | 12.6          | NS        | 5.8 J     | 12.8      | 13.3      | 11.2      | NS        |
| Copper                 | mg/kg             | NS        | 16.9          | NS        | 23.4      | 23.9      | 19.1      | 52.1      | NS        |
| Iron                   | mg/kg             | NS        | 31000         | NS        | 18500     | 32000     | 31800     | 86400     | NS        |
| Lead                   | mg/kg             | NS        | 9.8 J         | NS        | 39.8      | 9.5 J     | 5.3 J     | 40.1      | NS        |
| Magnesium              | mg/kg             | NS        | 8290          | NS        | 10200     | 8730      | 11000     | 24900     | NS        |
| Manganese              | mg/kg             | NS        | 467           | NS        | 582       | 634       | 574       | 602       | NS        |
| Mercury                | mg/kg             | NS        | 0.04 U        | NS        | 0.07 J    | 0.05 J    | 0.04 U    | 0.06 J    | NS        |
| Nickel                 | mg/kg             | NS        | 41.8          | NS        | 17.5      | 35.3      | 36.6      | 39.7      | NS        |
| Potassium              | mg/kg             | NS        | 1310          | NS        | 1960      | 2970      | 2540      | 1610      | NS        |
| Selenium               | mg/kg             | NS        | 1.6 U J       | NS        | 0.39 U J  | 0.24 U J  | 0.35 U J  | 0.32 U J  | NS        |
| Silver                 | mg/kg             | NS        | 1.4 U J       | NS        | 1.3 U J   | 1.6 U J   | 1.3 U J   | 1.7 U J   | NS        |
| Sodium                 | mg/kg             | NS        | 71.4 U        | NS        | 64.9 U    | 83.6 U    | 139 J     | 99.3 J    | NS        |
| Thallium               | mg/kg             | NS        | 0.53 U        | NS        | 0.64 U    | 0.4 U     | 0.58 U    | 0.52 U    | NS        |
| Vanadium               | mg/kg             | NS        | 21            | NS        | 23.8      | 31        | 26.4      | 23.5      | NS        |
| Zinc                   | mg/kg             | NS        | 94.4          | NS        | 58.1      | 83.3      | 94.6      | 244       | NS        |
| Cyanide                | mg/kg             | NS        | 0.59 U        | NS        | 0.65 U    | 0.6 U     | 0.66 U    | 0.65 U    | NS        |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL          | SOIL          | SOIL     | SOIL         | SOIL     | SOIL     | SOIL     | SOIL     |  |
|----------------------------|----------|---------------|---------------|----------|--------------|----------|----------|----------|----------|--|
|                            | LOCATION | B-17          | B-17          | B-17     | B-17         | B-18     | B-18     | B-18     | B-19     |  |
|                            | DEPTH    | 2-4           | 2-4           | 4-6      | 6-8          | 0-2      | 2-4      | 4-6      | 0-2      |  |
|                            | DATE     | 11/13/91      | 11/13/91      | 11/13/91 | 11/13/91     | 11/13/91 | 11/13/91 | 11/13/91 | 11/13/91 |  |
|                            | ES ID    | E(4) S1113-57 | S1113-57DL(5) | S1113-58 | S1113-59 (2) | S1113-60 | S1113-61 | S1113-62 | S1113-63 |  |
|                            | LAB ID   | 148929        | 148929        | 148930   | 148931       | 148932   | 148933   | 148934   | 148935   |  |
|                            | UNITS    |               |               |          |              |          |          |          |          |  |
| <b>VOCs</b>                |          |               |               |          |              |          |          |          |          |  |
| Chloromethane              | µg/Kg    | 12 U J        | 16 U R        | 12 U     | 33 U         | 12 U     | 11 U     | 11 U     | 12 U     |  |
| Bromomethane               | µg/Kg    | 12 U J        | 16 U R        | 12 U     | 33 U         | 12 U     | 11 U     | 11 U     | 12 U     |  |
| Vinyl Chloride             | µg/Kg    | 12 U J        | 16 U R        | 12 U     | 33 U         | 12 U     | 11 U     | 11 U     | 12 U     |  |
| Chloroethane               | µg/Kg    | 12 U J        | 16 U R        | 12 U     | 33 U         | 12 U     | 11 U     | 11 U     | 12 U     |  |
| Methylene Chloride         | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 7 U          | 5 U      | 5 U      | 5 U      | 5 U      |  |
| Acetone                    | µg/Kg    | 12 U J        | 16 U R        | 15 U     | 16 U         | 12 U     | 11 U     | 11 U     | 12 U     |  |
| Carbon Disulfide           | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| 1,1-Dichloroethane         | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| 1,1-Dichloroethane         | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| 1,2-Dichloroethane (total) | µg/Kg    | 14 J          | 13 R          | 4 J      | 190          | 6 U      | 4 J      | 5 U      | 6 U      |  |
| Chloroform                 | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 4 J      | 6        | 6 U      |  |
| 1,2-Dichloroethane         | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 21           | 6 U      | 5 U      | 5 U      | 6 U      |  |
| 2-Butanone                 | µg/Kg    | 12 U J        | 16 U R        | 12 U     | 33 U         | 12 U     | 11 U     | 11 U     | 12 U     |  |
| 1,1,1-Trichloroethane      | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 3 J      | 5 U      | 6 U      |  |
| Carbon Tetrachloride       | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Vinyl Acetate              | µg/Kg    | 12 U J        | 16 U R        | 12 U     | 33 U         | 12 U     | 11 U     | 11 U     | 12 U     |  |
| Bromodichloromethane       | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| 1,2-Dichloropropane        | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| cis-1,3-Dichloropropene    | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Trichloroethene            | µg/Kg    | 260 R         | 210 J         | 47       | 540 J        | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Dibromochloromethane       | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| 1,1,2-Trichloroethane      | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Benzene                    | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| trans-1,3-Dichloropropene  | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Bromoform                  | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| 4-Methyl-2-Pentanone       | µg/Kg    | 12 U J        | 16 U R        | 12 U     | 33 U         | 12 U     | 11 U     | 11 U     | 12 U     |  |
| 2-Hexanone                 | µg/Kg    | 12 U J        | 16 U R        | 12 U     | 33 U         | 12 U     | 11 U     | 11 U     | 12 U     |  |
| Tetrachloroethene          | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 6        | 5 U      | 6 U      |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Toluene                    | µg/Kg    | 5 J           | 3 R           | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Chlorobenzene              | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Ethylbenzene               | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Styrene                    | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |
| Xylene (total)             | µg/Kg    | 6 U J         | 8 U R         | 6 U      | 17 U         | 6 U      | 5 U      | 5 U      | 6 U      |  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL          | SOIL          | SOIL     | SOIL         | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|------------------------------|---------------|---------------|----------|--------------|----------|----------|----------|----------|----------|
| DEPTH                        | B-17          | B-17          | B-17     | B-17         | B-17     | B-18     | B-18     | B-18     | B-19     |
| DATE                         | 2-4           | 2-4           | 4-6      | 6-8          | 0-2      | 2-4      | 4-6      | 0-2      |          |
| ES ID                        | 11/13/91      | 11/13/91      | 11/13/91 | 11/13/91     | 11/13/91 | 11/13/91 | 11/13/91 | 11/13/91 | 11/13/91 |
| LAB ID                       | E(4) S1113-57 | S1113-57DL(5) | S1113-58 | S1113-59 (2) | S1113-60 | S1113-61 | S1113-62 | S1113-63 |          |
| UNITS                        | 148929        | 148929        | 148930   | 148931       | 148932   | 148933   | 148934   | 148935   |          |
| COMPOUND                     | UNITS         | UNITS         | UNITS    | UNITS        | UNITS    | UNITS    | UNITS    | UNITS    | UNITS    |
| <b>VOCs</b>                  |               |               |          |              |          |          |          |          |          |
| <b>SEMIVOLATILES</b>         |               |               |          |              |          |          |          |          |          |
| Phenol                       | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| bis(2-Chloroethyl) ether     | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2-Chlorophenol               | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 1,3-Dichlorobenzene          | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 1,4-Dichlorobenzene          | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Benzyl Alcohol               | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 1,2-Dichlorobenzene          | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2-Methylphenol               | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| bis(2-Chloroisopropyl) ether | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 4-Methylphenol               | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| N-Nitroso-d-n-propylamine    | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Hexachloroethane             | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Nitrobenzene                 | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Isophorone                   | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2-Nitrophenol                | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2,4-Dimethylphenol           | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Benzic acid                  | µg/Kg         | 3900 U        | NS       | 3700 U       | 3300 U   | 3600 U   | 3600 U   | 3400 U   | 3600 U   |
| bis(2-Chloroethoxy) methane  | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2,4-Dichlorophenol           | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 1,2,4-Trichlorobenzene       | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Naphthalene                  | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 4-Chloroaniline              | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Hexachlorobutadiene          | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 4-Chloro-3-methylphenol      | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2-Methylnaphthalene          | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Hexachlorocyclopentadiene    | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2,4,6-Trichlorophenol        | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2,4,5-Trichlorophenol        | µg/Kg         | 3900 U        | NS       | 3700 U       | 3300 U   | 3600 U   | 3600 U   | 3400 U   | 3600 U   |
| 2-Chloronaphthalene          | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2-Nitroaniline               | µg/Kg         | 3900 U        | NS       | 3700 U       | 3300 U   | 3600 U   | 3600 U   | 3400 U   | 3600 U   |
| Dimethylphthalate            | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Acenaphthylene               | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2,6-Dinitrotoluene           | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 3-Nitroaniline               | µg/Kg         | 3900 U        | NS       | 3700 U       | 3300 U   | 3600 U   | 3600 U   | 3400 U   | 3600 U   |
| Acenaphthene                 | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2,4-Dinitrophenol            | µg/Kg         | 3900 U        | NS       | 3700 U       | 3300 U   | 3600 U   | 3600 U   | 3400 U   | 3600 U   |
| 4-Nitrophenol                | µg/Kg         | 3900 U        | NS       | 3700 U       | 3300 U   | 3600 U   | 3600 U   | 3400 U   | 3600 U   |
| Dibenzofuran                 | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 2,4-Dinitrotoluene           | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Diethylphthalate             | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 4-Chlorophenyl-phenylether   | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Fluorene                     | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 4-Nitroaniline               | µg/Kg         | 3900 U        | NS       | 3700 U       | 3300 U   | 3600 U   | 3600 U   | 3400 U   | 3600 U   |
| 4,6-Dinitro-2-methylphenol   | µg/Kg         | 3900 U        | NS       | 3700 U       | 3300 U   | 3600 U   | 3600 U   | 3400 U   | 3600 U   |
| N-Nitrosodiphenylamine (1)   | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 4-Bromophenyl-phenylether    | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Hexachlorobenzene            | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Pentachlorophenol            | µg/Kg         | 3900 U        | NS       | 3700 U       | 3300 U   | 3600 U   | 3600 U   | 3400 U   | 3600 U   |
| Phenanthrene                 | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Anthracene                   | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Carbazole                    | µg/Kg         | NS            | NS       | NS           | NS       | NS       | NS       | NS       | NS       |
| Di-n-butylphthalate          | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Fluoranthene                 | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Pyrene                       | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Butylbenzyl phthalate        | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| 3,3'-Dichlorobenzidine       | µg/Kg         | 1600 U        | NS       | 1500 U       | 1400 U   | 1500 U   | 1500 U   | 1400 U   | 1600 U   |
| Benzo(a)anthracene           | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Chrysene                     | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| bis(2-Ethylhexyl) phthalate  | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 400 J    | 110 J    | 780 U    |
| Di-n-octylphthalate          | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Benzo(b)fluoranthene         | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Benzo(k)fluoranthene         | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Benzo(a)pyrene               | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Indeno(1,2,3-cd)pyrene       | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Dibenz(a,h)anthracene        | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |
| Benzo(g,h,i)perylene         | µg/Kg         | 790 U         | NS       | 770 U        | 680 U    | 740 U    | 740 U    | 700 U    | 780 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | E(4) | MATRIX   | SOIL     | SOIL          | SOIL     | SOIL         | SOIL     | SOIL     | SOIL     | SOIL     |
|------------------------|------|----------|----------|---------------|----------|--------------|----------|----------|----------|----------|
|                        |      | LOCATION | B-17     | B-17          | B-17     | B-17         | B-18     | B-18     | B-18     | B-18     |
|                        |      | DEPTH    | 2-4      | 2-4           | 4-6      | 6-8          | 0-2      | 2-4      | 4-6      | 0-2      |
|                        |      | DATE     | 11/13/91 | 11/13/91      | 11/13/91 | 11/13/91     | 11/13/91 | 11/13/91 | 11/13/91 | 11/13/91 |
|                        |      | ES ID    | S1113-57 | S1113-57DL(5) | S1113-58 | S1113-59 (2) | S1113-60 | S1113-61 | S1113-62 | S1113-63 |
|                        |      | LAB ID   | 148929   | 148929        | 148930   | 148931       | 148932   | 148933   | 148934   | 148935   |
| UNITS                  |      |          |          |               |          |              |          |          |          |          |
| <b>VOCs</b>            |      |          |          |               |          |              |          |          |          |          |
| <b>PESTICIDES/PCBs</b> |      |          |          |               |          |              |          |          |          |          |
| alpha-BHC              |      | µg/Kg    | 19 U     | NS            | 19 U     | 17 U         | 18 U     | 18 U     | 17 U     | 19 U     |
| beta-BHC               |      | µg/Kg    | 19 U     | NS            | 19 U     | 17 U         | 18 U     | 18 U     | 17 U     | 19 U     |
| delta-BHC              |      | µg/Kg    | 19 U     | NS            | 19 U     | 17 U         | 18 U     | 18 U     | 17 U     | 19 U     |
| gamma-BHC (Lindane)    |      | µg/Kg    | 19 U     | NS            | 19 U     | 17 U         | 18 U     | 18 U     | 17 U     | 19 U     |
| Heptachlor             |      | µg/Kg    | 19 U     | NS            | 19 U     | 17 U         | 18 U     | 18 U     | 17 U     | 19 U     |
| Aldrin                 |      | µg/Kg    | 19 U     | NS            | 19 U     | 17 U         | 18 U     | 18 U     | 17 U     | 19 U     |
| Heptachlor epoxide     |      | µg/Kg    | 19 U     | NS            | 19 U     | 17 U         | 18 U     | 18 U     | 17 U     | 19 U     |
| Endosulfan I           |      | µg/Kg    | 19 U     | NS            | 19 U     | 17 U         | 18 U     | 18 U     | 17 U     | 19 U     |
| Dieldrin               |      | µg/Kg    | 39 U     | NS            | 37 U     | 33 U         | 36 U     | 36 U     | 34 U     | 38 U     |
| 4,4'-DDE               |      | µg/Kg    | 39 U     | NS            | 37 U     | 33 U         | 36 U     | 36 U     | 34 U     | 38 U     |
| Endrin                 |      | µg/Kg    | 39 U     | NS            | 37 U     | 33 U         | 36 U     | 36 U     | 34 U     | 38 U     |
| Endosulfan II          |      | µg/Kg    | 39 U     | NS            | 37 U     | 33 U         | 36 U     | 36 U     | 34 U     | 38 U     |
| 4,4'-DDD               |      | µg/Kg    | 39 U     | NS            | 37 U     | 33 U         | 36 U     | 36 U     | 34 U     | 38 U     |
| Endosulfan sulfate     |      | µg/Kg    | 39 U     | NS            | 37 U     | 33 U         | 36 U     | 36 U     | 34 U     | 38 U     |
| 4,4'-DDT               |      | µg/Kg    | 39 U     | NS            | 37 U     | 33 U         | 36 U     | 36 U     | 34 U     | 38 U     |
| Methoxychlor           |      | µg/Kg    | 190 U    | NS            | 190 U    | 170 U        | 180 U    | 180 U    | 170 U    | 190 U    |
| Endrin ketone          |      | µg/Kg    | 39 U     | NS            | 37 U     | 33 U         | 36 U     | 36 U     | 34 U     | 38 U     |
| Endrin aldehyde        |      | µg/Kg    | NS       | NS            | NS       | NS           | NS       | NS       | NS       | NS       |
| alpha-Chlordane        |      | µg/Kg    | 190 U    | NS            | 190 U    | 170 U        | 180 U    | 180 U    | 170 U    | 190 U    |
| gamma-Chlordane        |      | µg/Kg    | 190 U    | NS            | 190 U    | 170 U        | 180 U    | 180 U    | 170 U    | 190 U    |
| Toxaphene              |      | µg/Kg    | 390 U    | NS            | 370 U    | 330 U        | 360 U    | 360 U    | 340 U    | 380 U    |
| Aroclor-1016           |      | µg/Kg    | 190 U    | NS            | 190 U    | 170 U        | 180 U    | 180 U    | 170 U    | 190 U    |
| Aroclor-1221           |      | µg/Kg    | 190 U    | NS            | 190 U    | 170 U        | 180 U    | 180 U    | 170 U    | 190 U    |
| Aroclor-1232           |      | µg/Kg    | 190 U    | NS            | 190 U    | 170 U        | 180 U    | 180 U    | 170 U    | 190 U    |
| Aroclor-1242           |      | µg/Kg    | 190 U    | NS            | 190 U    | 170 U        | 180 U    | 180 U    | 170 U    | 190 U    |
| Aroclor-1248           |      | µg/Kg    | 190 U    | NS            | 190 U    | 170 U        | 180 U    | 180 U    | 170 U    | 190 U    |
| Aroclor-1254           |      | µg/Kg    | 390 U    | NS            | 370 U    | 330 U        | 360 U    | 360 U    | 340 U    | 380 U    |
| Aroclor-1260           |      | µg/Kg    | 390 U    | NS            | 370 U    | 330 U        | 360 U    | 360 U    | 340 U    | 380 U    |
| <b>HERBICIDES</b>      |      |          |          |               |          |              |          |          |          |          |
| 2,4-D                  |      | µg/Kg    | 60 U J   | NS            | 60 U J   | 53 U J       | 56 U J   | 57 U J   | 53 U J   | 60 U J   |
| 2,4-DB                 |      | µg/Kg    | 60 U J   | NS            | 60 U J   | 53 U J       | 56 U J   | 57 U J   | 53 U J   | 60 U J   |
| 2,4,5-T                |      | µg/Kg    | 6 U J    | NS            | 6 U J    | 5 U J        | 6 U J    | 6 U J    | 5 U J    | 6 U J    |
| 2,4,5-TP (Silvex)      |      | µg/Kg    | 6 U J    | NS            | 6 U J    | 5 U J        | 6 U J    | 6 U J    | 5 U J    | 6 U J    |
| Dalapon                |      | µg/Kg    | 150 U J  | NS            | 140 U J  | 130 U J      | 140 U J  | 140 U J  | 130 U J  | 140 U J  |
| Dicamba                |      | µg/Kg    | 6 U J    | NS            | 6 U J    | 5 U J        | 6 U J    | 6 U J    | 5 U J    | 6 U J    |
| Dichloroprop           |      | µg/Kg    | 60 U J   | NS            | 60 U J   | 53 U J       | 56 U J   | 57 U J   | 53 U J   | 60 U J   |
| Dinoseb                |      | µg/Kg    | 30 U J   | NS            | 30 U J   | 26 U J       | 28 U J   | 29 U J   | 26 U J   | 30 U J   |
| MCPA                   |      | µg/Kg    | 6000 U J | NS            | 6000 U J | 5300 U J     | 5600 U J | 5700 U J | 5300 U J | 6000 U J |
| MCPP                   |      | µg/Kg    | 6000 U J | NS            | 6000 U J | 5300 U J     | 5600 U J | 5700 U J | 5300 U J | 6000 U J |
| <b>METALS</b>          |      |          |          |               |          |              |          |          |          |          |
| Aluminum               |      | mg/kg    | 16700    | NS            | 16800    | 15100        | 22600    | 21100    | 22300    | 16600    |
| Antimony               |      | mg/kg    | 10.3 U J | NS            | 6.6 U J  | 10.6 U J     | 8 U J    | 8.6 U J  | 8.7 J    | 10.6 U J |
| Arsenic                |      | mg/kg    | 5.5      | NS            | 4.6      | 4.6          | 5.1      | 5.6      | 6.5      | 5.9      |
| Barium                 |      | mg/kg    | 157      | NS            | 73.5     | 40.1         | 85.8     | 59.9     | 59.7     | 89.9     |
| Beryllium              |      | mg/kg    | 1.1      | NS            | 0.88     | 0.81 J       | 1.1      | 0.95     | 1        | 1        |
| Cadmium                |      | mg/kg    | 3.7 J    | NS            | 2.9 J    | 3            | 4        | 4.1      | 4.2      | 3.7      |
| Calcium                |      | mg/kg    | 20500    | NS            | 13200    | 58100        | 6180     | 3100     | 30000    | 3440     |
| Chromium               |      | mg/kg    | 31.6     | NS            | 26.5     | 22.4         | 30.4     | 30.5     | 31.9     | 26       |
| Cobalt                 |      | mg/kg    | 13.1     | NS            | 10.6     | 11.3         | 16       | 15.7     | 16.3     | 11       |
| Copper                 |      | mg/kg    | 48.7     | NS            | 20.2     | 12.9         | 24.6 J   | 15.8 J   | 18.4 J   | 22.5 J   |
| Iron                   |      | mg/kg    | 34800    | NS            | 30200    | 26700        | 34500    | 36700    | 37800    | 33300    |
| Lead                   |      | mg/kg    | 106      | NS            | 12.8     | 5.2 J        | 8.9 J    | 4.6 J    | 4.9 J    | 13.7 J   |
| Magnesium              |      | mg/kg    | 9340     | NS            | 8270     | 6750         | 6440     | 7790     | 8260     | 5460     |
| Manganese              |      | mg/kg    | 1090     | NS            | 400      | 677          | 666      | 522      | 615      | 517      |
| Mercury                |      | mg/kg    | 0.11     | NS            | 0.05 U   | 0.04 U       | 0.08 J   | 0.04 U   | 0.04 U   | 0.05 J   |
| Nickel                 |      | mg/kg    | 37.2     | NS            | 39.2     | 33.7         | 41.8     | 48.5     | 48.5     | 37.3     |
| Potassium              |      | mg/kg    | 2750     | NS            | 1610     | 1630         | 2870     | 1850     | 2450     | 1240     |
| Selenium               |      | mg/kg    | 0.34 U J | NS            | 0.26 U J | 0.31 U J     | 0.29 U J | 0.32 U J | 0.27 U J | 0.29 U J |
| Silver                 |      | mg/kg    | 1.5 U J  | NS            | 0.99 U J | 1.6 U J      | 1.2 U J  | 1.3 U J  | 1.2 U J  | 1.6 U J  |
| Sodium                 |      | mg/kg    | 78.9 U   | NS            | 50.7 U   | 242 J        | 105 J    | 99.9 J   | 176 J    | 85.7 J   |
| Thallium               |      | mg/kg    | 0.58 U   | NS            | 0.43 U   | 0.51 U       | 0.48 U   | 0.52 U   | 0.44 U   | 0.48 U   |
| Vanadium               |      | mg/kg    | 30.8     | NS            | 24.3     | 19.8         | 29       | 24.5     | 27       | 25       |
| Zinc                   |      | mg/kg    | 1710     | NS            | 253      | 67.2         | 113      | 98.6     | 102      | 90.7     |
| Cyanide                |      | mg/kg    | 0.64 U   | NS            | 0.59 U   | 0.52 U       | 0.66 U   | 0.65 U   | 0.64 U   | 0.66 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL     | SOIL     | SOIL     | SOIL     | SOIL      | SOIL     | SOIL     | SOIL     |
|----------------------------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
|                            | LOCATION | B-19     | B-19     | B-20     | B-20     | B-20      | B-20     | B-21     | B-21     |
|                            | DEPTH    | 2-4      | 4-6      | 0-2      | 2-4      | 2-4       | 4-6      | 0-2      | 2-4      |
|                            | DATE     | 11/13/91 | 11/13/91 | 11/14/91 | 11/14/91 | 11/14/91  | 11/14/91 | 11/14/91 | 11/14/91 |
|                            | ES ID    | S1113-84 | S1113-85 | S1114-66 | S1114-67 | S1114-67D | S1114-68 | S1114-69 | S1114-70 |
|                            | LAB ID   | 148936   | 148937   | 149176   | 149177   | 149177    | 149178   | 149179   | 149180   |
|                            | UNITS    |          |          |          |          |           |          |          |          |
| <b>VOCs</b>                |          |          |          |          |          |           |          |          |          |
| Chloromethane              | µg/Kg    | 12 U     | 11 U     | 12 U     | 11 U     | NS        | 11 U     | 12 U     | 12 U     |
| Bromomethane               | µg/Kg    | 12 U     | 11 U     | 12 U     | 11 U     | NS        | 11 U     | 12 U     | 12 U     |
| Vinyl Chloride             | µg/Kg    | 12 U     | 11 U     | 12 U     | 11 U     | NS        | 11 U     | 12 U     | 12 U     |
| Chloroethane               | µg/Kg    | 12 U     | 11 U     | 12 U     | 11 U     | NS        | 11 U     | 12 U     | 12 U     |
| Methylene Chloride         | µg/Kg    | 9 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Acetone                    | µg/Kg    | 12 U     | 11 U     | 12 U     | 11 U     | NS        | 11 U     | 31 U     | 12 U     |
| Carbon Disulfide           | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| 1,1-Dichloroethene         | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| 1,1-Dichloroethane         | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| 1,2-Dichloroethene (total) | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Chloroform                 | µg/Kg    | 1 J      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| 1,2-Dichloroethane         | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| 2-Butanone                 | µg/Kg    | 10 J     | 11 U     | 12 U     | 11 U     | NS        | 11 U     | 12 U     | 12 U     |
| 1,1,1-Trichloroethane      | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Carbon Tetrachloride       | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Vinyl Acetate              | µg/Kg    | 12 U     | 11 U     | 12 U     | 11 U     | NS        | 11 U     | 12 U     | 12 U     |
| Bromodichloromethane       | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| 1,2-Dichloropropane        | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| cis-1,3-Dichloropropene    | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Trichloroethene            | µg/Kg    | 1 J      | 5 U      | 6 U      | 2 J      | NS        | 5 U      | 6 U      | 6 U      |
| Dibromochloromethane       | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| 1,1,2-Trichloroethane      | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Benzene                    | µg/Kg    | 2 J      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| trans-1,3-Dichloropropene  | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Bromoform                  | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| 4-Methyl-2-Pentanone       | µg/Kg    | 12 U     | 11 U     | 12 U     | 11 U     | NS        | 11 U     | 12 U     | 12 U     |
| 2-Hexanone                 | µg/Kg    | 12 U     | 11 U     | 12 U     | 11 U     | NS        | 11 U     | 12 U     | 12 U     |
| Tetrachloroethene          | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Toluene                    | µg/Kg    | 15       | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Chlorobenzene              | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Ethylbenzene               | µg/Kg    | 4 J      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Styrene                    | µg/Kg    | 6 U      | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |
| Xylene (total)             | µg/Kg    | 18       | 5 U      | 6 U      | 6 U      | NS        | 5 U      | 6 U      | 6 U      |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX LOCATION | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   |
|------------------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | DEPTH           | B-19   | B-19   | B-20   | B-20   | B-20   | B-20   | B-21   | B-21   |
| UNITS                        | DATE            | DATE   | DATE   | DATE   | DATE   | DATE   | DATE   | DATE   | DATE   |
|                              | ES ID           | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  |
|                              | LAB ID          | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID |
| <b>VOCs</b>                  |                 |        |        |        |        |        |        |        |        |
| <b>SEMIVOLATILES</b>         |                 |        |        |        |        |        |        |        |        |
| Phenol                       | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| bis(2-Chloroethyl) ether     | µg/Kg           | 9 J    | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2-Chlorophenol               | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 1,3-Dichlorobenzene          | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 1,4-Dichlorobenzene          | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Benzyl Alcohol               | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 1,2-Dichlorobenzene          | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2-Methylphenol               | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| bis(2-Chloroisopropyl) ether | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 4-Methylphenol               | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| N-Nitroso-di-n-propylamine   | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Hexachloroethane             | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Nitrobenzene                 | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Isophorone                   | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2-Nitrophenol                | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2,4-Dimethylphenol           | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Benzic acid                  | µg/Kg           | 3500 U | 3700 U | 3800 U | 3600 U | NS     | 3600 U | 3800 U | 3700 U |
| bis(2-Chloroethoxy) methane  | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2,4-Dichlorophenol           | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 1,2,4-Trichlorobenzene       | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Naphthalene                  | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 4-Chloroaniline              | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Hexachlorobutadiene          | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 4-Chloro-3-methylphenol      | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2-Methylnaphthalene          | µg/Kg           | 88 J   | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Hexachlorocyclopentadiene    | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2,4,6-Trichlorophenol        | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2,4,5-Trichlorophenol        | µg/Kg           | 3500 U | 3700 U | 3800 U | 3600 U | NS     | 3600 U | 3800 U | 3700 U |
| 2-Chloronaphthalene          | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2-Nitroaniline               | µg/Kg           | 3500 U | 3700 U | 3800 U | 3600 U | NS     | 3600 U | 3800 U | 3700 U |
| Dimethylphthalate            | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Acenaphthylene               | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2,6-Dinitrotoluene           | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 3-Nitroaniline               | µg/Kg           | 3500 U | 3700 U | 3800 U | 3600 U | NS     | 3600 U | 3800 U | 3700 U |
| Acenaphthene                 | µg/Kg           | 8 J    | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 220 J  | 770 U  |
| 2,4-Dinitrophenol            | µg/Kg           | 3500 U | 3700 U | 3800 U | 3600 U | NS     | 3600 U | 3800 U | 3700 U |
| 4-Nitrophenol                | µg/Kg           | 3500 U | 3700 U | 3800 U | 3600 U | NS     | 3600 U | 3800 U | 3700 U |
| Dibenzofuran                 | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 2,4-Dinitrotoluene           | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Diethylphthalate             | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 4-Chlorophenyl-phenylether   | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Fluorene                     | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 160 J  | 770 U  |
| 4-Nitroaniline               | µg/Kg           | 3500 U | 3700 U | 3800 U | 3600 U | NS     | 3600 U | 3800 U | 3700 U |
| 4,6-Dinitro-2-methylphenol   | µg/Kg           | 3500 U | 3700 U | 3800 U | 3600 U | NS     | 3600 U | 3800 U | 3700 U |
| N-Nitrosodiphenylamine (1)   | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 4-Bromophenyl-phenylether    | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Hexachlorobenzene            | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Pentachlorophenol            | µg/Kg           | 3500 U | 3700 U | 3800 U | 3600 U | NS     | 3600 U | 3800 U | 3700 U |
| Phenanthrene                 | µg/Kg           | 730 U  | 760 U  | 290 J  | 750 U  | NS     | 740 U  | 1700   | 770 U  |
| Anthracene                   | µg/Kg           | 730 U  | 760 U  | 84 J   | 750 U  | NS     | 740 U  | 460 J  | 770 U  |
| Carbazole                    | µg/Kg           | NS     | NS     | NS     | NS     | NS     | NS     | NS     | NS     |
| Di-n-butylphthalate          | µg/Kg           | 730 U  | 760 U  | 88 J   | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Fluoranthene                 | µg/Kg           | 730 U  | 760 U  | 270 J  | 750 U  | NS     | 740 U  | 2000   | 770 U  |
| Pyrene                       | µg/Kg           | 730 U  | 760 U  | 300 J  | 750 U  | NS     | 740 U  | 2100   | 770 U  |
| Butylbenzylphthalate         | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| 3,3'-Dichlorobenzidine       | µg/Kg           | 1500 U | 1500 U | 1800 U | 1500 U | NS     | 1500 U | 1800 U | 1500 U |
| Benzo(a)anthracene           | µg/Kg           | 730 U  | 760 U  | 150 J  | 750 U  | NS     | 740 U  | 830    | 770 U  |
| Chrysene                     | µg/Kg           | 730 U  | 760 U  | 160 J  | 750 U  | NS     | 740 U  | 880    | 770 U  |
| bis(2-Ethylhexyl)phthalate   | µg/Kg           | 730 U  | 88 J   | 780 U  | 750 U  | NS     | 740 U  | 830 J  | 770 U  |
| Di-n-octylphthalate          | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Benzo(b)fluoranthene         | µg/Kg           | 730 U  | 760 U  | 93 J   | 750 U  | NS     | 740 U  | 670 J  | 770 U  |
| Benzo(k)fluoranthene         | µg/Kg           | 730 U  | 760 U  | 160 J  | 750 U  | NS     | 740 U  | 700 J  | 770 U  |
| Benzo(a)pyrene               | µg/Kg           | 730 U  | 760 U  | 120 J  | 750 U  | NS     | 740 U  | 760 J  | 770 U  |
| Indeno(1,2,3-cd)pyrene       | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 350 J  | 770 U  |
| Dibenz(a,h)anthracene        | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 780 U  | 770 U  |
| Benzo(g,h,i)perylene         | µg/Kg           | 730 U  | 760 U  | 780 U  | 750 U  | NS     | 740 U  | 370 J  | 770 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-19 | SOIL B-19 | SOIL B-20 | SOIL B-20 | SOIL B-20 | SOIL B-20 | SOIL B-21 | SOIL B-21 |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DEPTH                  | 2-4       | 4-6       | 0-2       | 2-4       | 2-4       | 4-6       | 0-2       | 2-4       |
| DATE                   | 11/13/91  | 11/13/91  | 11/14/91  | 11/14/91  | 11/14/91  | 11/14/91  | 11/14/91  | 11/14/91  |
| ES ID                  | S1113-64  | S1113-65  | S1114-66  | S1114-67  | S1114-67D | S1114-68  | S1114-69  | S1114-70  |
| LAB ID                 | 148938    | 148937    | 149176    | 149177    | 149177    | 149178    | 149179    | 149180    |
| COMPOUND               | UNITS     | UNITS     | UNITS     | UNITS     | UNITS     | UNITS     | UNITS     | UNITS     |
| <b>VOCs</b>            |           |           |           |           |           |           |           |           |
| <b>PESTICIDES/PCBs</b> |           |           |           |           |           |           |           |           |
| alpha-BHC              | µg/Kg     | 18 U      | 18 U      | 19 U      | 18 U      | 90 U R    | 18 U      | 19 U      |
| beta-BHC               | µg/Kg     | 18 U      | 18 U      | 19 U      | 18 U      | 90 U R    | 18 U      | 19 U      |
| delta-BHC              | µg/Kg     | 18 U      | 18 U      | 19 U      | 18 U      | 90 U R    | 18 U      | 19 U      |
| gamma-BHC (Lindane)    | µg/Kg     | 18 U      | 16 U      | 19 U      | 18 U      | 90 U R    | 18 U      | 19 U      |
| Heptachlor             | µg/Kg     | 18 U      | 18 U      | 19 U      | 18 U      | 90 U R    | 18 U      | 19 U      |
| Aldrin                 | µg/Kg     | 18 U      | 18 U      | 19 U      | 18 U      | 90 U R    | 18 U      | 19 U      |
| Heptachlor epoxide     | µg/Kg     | 18 U      | 18 U      | 19 U      | 18 U      | 90 U R    | 18 U      | 19 U      |
| Endosulfan I           | µg/Kg     | 18 U      | 18 U      | 19 U      | 18 U      | 90 U R    | 18 U      | 19 U      |
| Dieldrin               | µg/Kg     | 35 U      | 37 U      | 38 U      | 36 U      | 180 U R   | 36 U      | 37 U      |
| 4,4'-DDE               | µg/Kg     | 35 U      | 37 U      | 38 U      | 190 R     | 140 J     | 18 U      | 37 U      |
| Endrin                 | µg/Kg     | 35 U      | 37 U      | 38 U      | 36 U      | 180 U R   | 36 U      | 37 U      |
| Endosulfan II          | µg/Kg     | 35 U      | 37 U      | 38 U      | 36 U      | 180 U R   | 36 U      | 37 U      |
| 4,4'-DDD               | µg/Kg     | 35 U      | 37 U      | 38 U      | 36 U      | 180 U R   | 36 U      | 37 U      |
| Endosulfan sulfate     | µg/Kg     | 35 U      | 37 U      | 38 U      | 36 U      | 180 U R   | 36 U      | 37 U      |
| 4,4'-DDT               | µg/Kg     | 35 U      | 37 U      | 38 U      | 29 J      | 180 U R   | 36 U      | 37 U      |
| Methoxychlor           | µg/Kg     | 180 U     | 180 U     | 190 U     | 180 U     | 900 U R   | 180 U     | 190 U     |
| Endrin ketone          | µg/Kg     | 35 U      | 37 U      | 38 U      | 36 U      | 180 U R   | 36 U      | 37 U      |
| Endrin aldehyde        | µg/Kg     | NS        | NS        | NS        | NS        | NS        | NS        | NS        |
| alpha-Chlordane        | µg/Kg     | 180 U     | 180 U     | 190 U     | 180 U     | 900 U R   | 180 U     | 190 U     |
| gamma-Chlordane        | µg/Kg     | 180 U     | 180 U     | 190 U     | 180 U     | 900 U R   | 180 U     | 190 U     |
| Toxaphene              | µg/Kg     | 350 U     | 370 U     | 380 U     | 360 U     | 1800 U R  | 360 U     | 370 U     |
| Aroclor-1016           | µg/Kg     | 180 U     | 180 U     | 190 U     | 180 U     | 900 U R   | 180 U     | 190 U     |
| Aroclor-1221           | µg/Kg     | 180 U     | 180 U     | 190 U     | 180 U     | 900 U R   | 180 U     | 190 U     |
| Aroclor-1232           | µg/Kg     | 180 U     | 180 U     | 190 U     | 180 U     | 900 U R   | 180 U     | 190 U     |
| Aroclor-1242           | µg/Kg     | 180 U     | 180 U     | 190 U     | 180 U     | 900 U R   | 180 U     | 190 U     |
| Aroclor-1248           | µg/Kg     | 180 U     | 180 U     | 190 U     | 180 U     | 900 U R   | 180 U     | 190 U     |
| Aroclor-1254           | µg/Kg     | 350 U     | 370 U     | 380 U     | 360 U     | 1800 U R  | 360 U     | 370 U     |
| Aroclor-1280           | µg/Kg     | 350 U     | 370 U     | 380 U     | 360 U     | 1800 U R  | 360 U     | 370 U     |
| <b>HERBICIDES</b>      |           |           |           |           |           |           |           |           |
| 2,4-D                  | µg/Kg     | 58 U J    | 59 U J    | 60 U J    | 57 U J    | NS        | 58 U J    | 57 U J    |
| 2,4-DB                 | µg/Kg     | 58 U J    | 59 U J    | 60 U J    | 57 U J    | NS        | 58 U J    | 57 U J    |
| 2,4,5-T                | µg/Kg     | 6 U J     | 6 U J     | 6 U J     | 6 U J     | NS        | 6 U J     | 6 U J     |
| 2,4,5-TP (Silvex)      | µg/Kg     | 6 U J     | 6 U J     | 6 U J     | 6 U J     | NS        | 6 U J     | 6 U J     |
| Dalapon                | µg/Kg     | 140 U J   | 140 U J   | 140 U J   | 140 U J   | NS        | 130 U J   | 140 U J   |
| Dicamba                | µg/Kg     | 6 U J     | 6 U J     | 6 U J     | 6 U J     | NS        | 6 U J     | 6 U J     |
| Dichloroprop           | µg/Kg     | 58 U J    | 59 U J    | 60 U J    | 57 U J    | NS        | 58 U J    | 57 U J    |
| Dinoseb                | µg/Kg     | 28 U J    | 29 U J    | 30 U J    | 29 U J    | NS        | 28 U J    | 29 U J    |
| MCPA                   | µg/Kg     | 5800 U J  | 5900 U J  | 6000 U J  | 5700 U J  | NS        | 5800 U J  | 5700 U J  |
| MCPP                   | µg/Kg     | 5800 U J  | 5900 U J  | 6000 U J  | 5700 U J  | NS        | 5800 U J  | 5700 U J  |
| <b>METALS</b>          |           |           |           |           |           |           |           |           |
| Aluminum               | mg/kg     | 21600     | 19500     | 13200     | 20300     | NS        | 19900     | 21300     |
| Antimony               | mg/kg     | 11 U J    | 10.3 U J  | 10.6 U J  | 10.8 U J  | NS        | 7.5 U J   | 7.6 U J   |
| Arsenic                | mg/kg     | 4.8       | 5.2       | 4.9       | 4.5       | NS        | 4         | 4.8       |
| Barium                 | mg/kg     | 81.7      | 90.7      | 74.5      | 90.7      | NS        | 82.8      | 75.9      |
| Beryllium              | mg/kg     | 1.1       | 1         | 0.8 J     | 1.1       | NS        | 1         | 0.99      |
| Cadmium                | mg/kg     | 4         | 3.8       | 2.6       | 4         | NS        | 4         | 4.8       |
| Calcium                | mg/kg     | 9750      | 18000     | 123000    | 32500     | NS        | 35500     | 7850      |
| Chromium               | mg/kg     | 34.8      | 29.8      | 17.5      | 29.8      | NS        | 29.8      | 33.4      |
| Cobalt                 | mg/kg     | 18.9      | 18.5      | 6.9 J     | 15.5      | NS        | 14.3      | 17.8      |
| Copper                 | mg/kg     | 18.3 J    | 22.8 J    | 28.5 J    | 28.1 J    | NS        | 19.8 J    | 21.8 J    |
| Iron                   | mg/kg     | 40300     | 38300     | 19900     | 36800     | NS        | 35500     | 41500     |
| Lead                   | mg/kg     | 7.4 J     | 8.6 J     | 18.4      | 26.3      | NS        | 6.2 J     | 8.2 J     |
| Magnesium              | mg/kg     | 8050      | 6890      | 24100     | 8010      | NS        | 7890      | 7720      |
| Manganese              | mg/kg     | 918       | 947       | 881       | 1080      | NS        | 920       | 924       |
| Mercury                | mg/kg     | 0.04 U    | 0.07 J    | 0.05 J    | 0.04 U    | NS        | 0.05 U    | 0.04 U    |
| Nickel                 | mg/kg     | 53.2      | 45.7      | 20.1      | 43.8      | NS        | 43.5      | 52.2      |
| Potassium              | mg/kg     | 2110      | 1860      | 2050      | 2310      | NS        | 2070      | 1630      |
| Selenium               | mg/kg     | 0.38 U J  | 0.29 U J  | 0.37 U J  | 0.23 U J  | NS        | 0.28 U J  | 0.34 U J  |
| Silver                 | mg/kg     | 1.6 U     | 1.5 U     | 1.6 U     | 1.6 U     | NS        | 1.1 U     | 1.1 U     |
| Sodium                 | mg/kg     | 122 J     | 126 J     | 150 J     | 115 J     | NS        | 162 J     | 133 J     |
| Thallium               | mg/kg     | 0.6 U     | 0.48 U    | 0.61 U    | 0.38 U    | NS        | 0.45 U    | 0.58 U    |
| Vanadium               | mg/kg     | 27.2      | 26.3      | 22.2      | 29.3      | NS        | 24.8      | 26.4      |
| Zinc                   | mg/kg     | 88.1      | 88.9      | 130       | 273       | NS        | 104       | 92.2      |
| Cyanide                | mg/kg     | 0.64 U    | 0.68 U    | 0.67 U    | 0.63      | NS        | 0.63 U    | 0.67 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION<br>DEPTH<br>DATE<br>ES ID<br>LAB ID<br>UNITS | SOIL  | SOIL  | SOIL  | SOIL  | SOIL  | SOIL  | SOIL  | SOIL  | SOIL  |
|----------------------------|--|---|---|---|---|---|---|---|---|---|
|                            |  | B-21<br>2-4<br>11/14/91<br>S1114-71 (1)<br>149181 | B-21<br>4-6<br>11/14/91<br>S1114-72<br>149182 | B-22<br>0-2<br>12/02/91<br>S1202-73 (3)<br>150016 | B-22<br>2-4<br>12/02/91<br>S1202-74 (4)<br>150017 | B-22<br>4-6<br>12/02/91<br>S1202-75 (1)<br>150018 | B-23<br>0-2<br>12/02/91<br>S1202-76<br>150019 | B-23<br>2-4<br>12/02/91<br>S1202-77<br>150020 | B-23<br>4-6<br>12/02/91<br>S1202-78<br>150021 | B-24<br>0-2<br>12/03/91<br>S1203-79 (3)<br>150022 |
| <b>VOCs</b>                |  |   |   |   |   |   |   |   |   |   |
| Chloromethane              | µg/Kg  | 11 U  | 11 U  | 12 U  | 10 U  | 11 U  | 12 U  | 11 U  | 11 U  | 13 U  |
| Bromomethane               | µg/Kg  | 11 U  | 11 U  | 12 U  | 10 U  | 11 U  | 12 U  | 11 U  | 11 U  | 13 U  |
| Vinyl Chloride             | µg/Kg  | 11 U  | 11 U  | 12 U  | 10 U  | 11 U  | 12 U  | 11 U  | 11 U  | 13 U  |
| Chloroethane               | µg/Kg  | 11 U  | 11 U  | 12 U  | 10 U  | 11 U  | 12 U  | 11 U  | 11 U  | 13 U  |
| Methylene Chloride         | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Acetone                    | µg/Kg  | 11 U  | 11 U  | 12 U  | 11 U  | 11 U  | 12 U  | 13 U  | 12 U  | 13 U  |
| Carbon Disulfide           | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| 1,1-Dichloroethene         | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| 1,1-Dichloroethane         | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| 1,2-Dichloroethene (total) | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Chloroform                 | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| 1,2-Dichloroethane         | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| 2-Butanone                 | µg/Kg  | 11 U  | 11 U  | 12 U  | 10 U  | 11 U  | 12 U  | 11 U  | 11 U  | 13 U  |
| 1,1,1-Trichloroethane      | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Carbon Tetrachloride       | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Vinyl Acetate              | µg/Kg  | 11 U  | 11 U  | 12 U  | 10 U  | 11 U  | 12 U  | 11 U  | 11 U  | 13 U  |
| Bromodichloromethane       | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| 1,2-Dichloropropane        | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| cis-1,3-Dichloropropene    | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Trichloroethene            | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Dibromochloromethane       | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| 1,1,2-Trichloroethane      | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Benzene                    | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| trans-1,3-Dichloropropene  | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Bromoform                  | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| 4-Methyl-2-Pentanone       | µg/Kg  | 11 U  | 11 U  | 12 U  | 10 U  | 11 U  | 12 U  | 11 U  | 11 U  | 13 U  |
| 2-Hexanone                 | µg/Kg  | 11 U  | 11 U  | 12 U  | 10 U  | 11 U  | 12 U  | 11 U  | 11 U  | 13 U  |
| Tetrachloroethene          | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| 1,1,2,2-Tetrachloroethane  | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Toluene                    | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Chlorobenzene              | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Ethylbenzene               | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Styrene                    | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |
| Xylene (total)             | µg/Kg  | 6 U   | 5 U   | 6 U   | 5 U   | 5 U   | 6 U   | 5 U   | 6 U   | 6 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-21    | SOIL B-21 | SOIL B-22    | SOIL B-22    | SOIL B-22    | SOIL B-23 | SOIL B-23 | SOIL B-23 | SOIL B-24    |        |
|------------------------------|--------------|-----------|--------------|--------------|--------------|-----------|-----------|-----------|--------------|--------|
| DEPTH                        | 2-4          | 4-6       | 0-2          | 2-4          | 4-6          | 0-2       | 2-4       | 4-6       | 0-2          |        |
| DATE                         | 11/14/91     | 11/14/91  | 12/02/91     | 12/02/91     | 12/02/91     | 12/02/91  | 12/02/91  | 12/02/91  | 12/03/91     |        |
| ES ID                        | S1114-71 (1) | S1114-72  | S1202-73 (3) | S1202-74 (4) | S1202-75 (1) | S1202-76  | S1202-77  | S1202-78  | S1203-79 (3) |        |
| LAB ID                       | 149181       | 149182    | 150016       | 150017       | 150018       | 150019    | 150020    | 150021    | 150022       |        |
| COMPOUND                     | UNITS        | UNITS     | UNITS        | UNITS        | UNITS        | UNITS     | UNITS     | UNITS     | UNITS        |        |
| <b>VOCs</b>                  |              |           |              |              |              |           |           |           |              |        |
| <b>SEMI-VOLATILES</b>        |              |           |              |              |              |           |           |           |              |        |
| Phenol                       | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| bis(2-Chloroethyl) ether     | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2-Chlorophenol               | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 1,3-Dichlorobenzene          | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 1,4-Dichlorobenzene          | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Benzyl Alcohol               | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 1,2-Dichlorobenzene          | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2-Methylphenol               | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| bis(2-Chloroisopropyl) ether | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 4-Methylphenol               | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| N-Nitroso-di-n-propylamine   | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Hexachloroethane             | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Nitrobenzene                 | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Isophorone                   | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2-Nitrophenol                | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2,4-Dimethylphenol           | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Benzoic acid                 | µg/Kg        | 3600 U    | NS           | 3900 U       | 3500 U       | NS        | 3600 U    | 3600 U    | 3600 U       | 4400 U |
| bis(2-Chloroethoxy) methane  | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2,4-Dichlorophenol           | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 1,2,4-Trichlorobenzene       | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Naphthalene                  | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 4-Chloroaniline              | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Hexachlorobutadiene          | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 4-Chloro-3-methylphenol      | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2-Methylnaphthalene          | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Hexachlorocyclopentadiene    | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2,4,6-Trichlorophenol        | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2,4,5-Trichlorophenol        | µg/Kg        | 3600 U    | NS           | 3900 U       | 3500 U       | NS        | 3600 U    | 3600 U    | 3600 U       | 4400 U |
| 2-Chloronaphthalene          | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2-Nitroaniline               | µg/Kg        | 3600 U    | NS           | 3900 U       | 3500 U       | NS        | 3600 U    | 3600 U    | 3600 U       | 4400 U |
| Dimethylphthalate            | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Acenaphthylene               | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2,6-Dinitrotoluene           | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 3-Nitroaniline               | µg/Kg        | 3600 U    | NS           | 3900 U       | 3500 U       | NS        | 3600 U    | 3600 U    | 3600 U       | 4400 U |
| Acenaphthene                 | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2,4-Dinitrophenol            | µg/Kg        | 3600 U    | NS           | 3900 U       | 3500 U       | NS        | 3600 U    | 3600 U    | 3600 U       | 4400 U |
| 4-Nitrophenol                | µg/Kg        | 3600 U    | NS           | 3900 U       | 3500 U       | NS        | 3600 U    | 3600 U    | 3600 U       | 4400 U |
| Dibenzofuran                 | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 2,4-Dinitrotoluene           | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Diethylphthalate             | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 4-Chlorophenyl-phenylether   | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Fluorene                     | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 4-Nitroaniline               | µg/Kg        | 3600 U    | NS           | 3900 U       | 3500 U       | NS        | 3600 U    | 3600 U    | 3600 U       | 4400 U |
| 4,6-Dinitro-2-methylphenol   | µg/Kg        | 3600 U    | NS           | 3900 U       | 3500 U       | NS        | 3600 U    | 3600 U    | 3600 U       | 4400 U |
| N-Nitrosodiphenylamine (1)   | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 4-Bromophenyl-phenylether    | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Hexachlorobenzene            | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Pentachlorophenol            | µg/Kg        | 3600 U    | NS           | 3900 U       | 3500 U       | NS        | 3600 U    | 3600 U    | 3600 U       | 4400 U |
| Phenanthrene                 | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Anthracene                   | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Carbazole                    | µg/Kg        | NS        | NS           | NS           | NS           | NS        | NS        | NS        | NS           | NS     |
| Di-n-butylphthalate          | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Fluoranthene                 | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Pyrene                       | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Butylbenzylphthalate         | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| 3,3'-Dichlorobenzidine       | µg/Kg        | 1500 U    | NS           | 1600 U       | 1400 U       | NS        | 1600 U    | 1500 U    | 1500 U       | 1800 U |
| Benzo(a)anthracene           | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Chrysene                     | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| bis(2-Ethylhexyl)phthalate   | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Di-n-octylphthalate          | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Benzo(b)fluoranthene         | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Benzo(k)fluoranthene         | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Benzo(a)pyrene               | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Indeno(1,2,3-cd)pyrene       | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Dibenz(a,h)anthracene        | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |
| Benzo(g,h,i)perylene         | µg/Kg        | 740 U     | NS           | 800 U        | 710 U        | NS        | 790 U     | 740 U     | 730 U        | 900 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-21    | SOIL B-21 | SOIL B-22    | SOIL B-22    | SOIL B-22    | SOIL B-23 | SOIL B-23 | SOIL B-23 | SOIL B-24    |          |
|------------------------|--------------|-----------|--------------|--------------|--------------|-----------|-----------|-----------|--------------|----------|
| DEPTH                  | 2-4          | 4-6       | 0-2          | 2-4          | 4-6          | 0-2       | 2-4       | 4-6       | 0-2          |          |
| DATE                   | 11/14/91     | 11/14/91  | 12/02/91     | 12/02/91     | 12/02/91     | 12/02/91  | 12/02/91  | 12/02/91  | 12/03/91     |          |
| ES ID                  | S1114-71 (1) | S1114-72  | S1202-73 (3) | S1202-74 (4) | S1202-75 (5) | S1202-76  | S1202-77  | S1202-78  | S1203-79 (3) |          |
| LAB ID                 | 149161       | 149182    | 150016       | 150017       | 150018       | 150019    | 150020    | 150021    | 150022       |          |
| COMPOUND               | UNITS        |           |              |              |              |           |           |           |              |          |
| <b>VOCs</b>            |              |           |              |              |              |           |           |           |              |          |
| <b>PESTICIDES/PCBs</b> |              |           |              |              |              |           |           |           |              |          |
| alpha-BHC              | µg/Kg        | 18 U      | NS           | 19 U         | 17 U         | NS        | 19 U      | 18 U      | 18 U         | 22 U     |
| beta-BHC               | µg/Kg        | 18 U      | NS           | 19 U         | 17 U         | NS        | 19 U      | 18 U      | 18 U         | 22 U     |
| delta-BHC              | µg/Kg        | 18 U      | NS           | 19 U         | 17 U         | NS        | 19 U      | 18 U      | 18 U         | 22 U     |
| gamma-BHC (Lindane)    | µg/Kg        | 18 U      | NS           | 19 U         | 17 U         | NS        | 19 U      | 18 U      | 18 U         | 22 U     |
| Heptachlor             | µg/Kg        | 18 U      | NS           | 19 U         | 17 U         | NS        | 19 U      | 18 U      | 18 U         | 22 U     |
| Aldrin                 | µg/Kg        | 18 U      | NS           | 19 U         | 17 U         | NS        | 19 U      | 18 U      | 18 U         | 22 U     |
| Heptachlor epoxide     | µg/Kg        | 18 U      | NS           | 19 U         | 17 U         | NS        | 19 U      | 18 U      | 18 U         | 22 U     |
| Endosulfan I           | µg/Kg        | 18 U      | NS           | 19 U         | 17 U         | NS        | 19 U      | 18 U      | 18 U         | 22 U     |
| Dieldrin               | µg/Kg        | 36 U      | NS           | 38 U         | 35 U         | NS        | 38 U      | 36 U      | 36 U         | 44 U     |
| 4,4'-DDE               | µg/Kg        | 36 U      | NS           | 38 U         | 35 U         | NS        | 38 U      | 36 U      | 36 U         | 44 U     |
| Endrin                 | µg/Kg        | 36 U      | NS           | 38 U         | 35 U         | NS        | 38 U      | 36 U      | 36 U         | 44 U     |
| Endosulfan II          | µg/Kg        | 36 U      | NS           | 38 U         | 35 U         | NS        | 38 U      | 36 U      | 36 U         | 44 U     |
| 4,4'-DDD               | µg/Kg        | 36 U      | NS           | 38 U         | 35 U         | NS        | 38 U      | 36 U      | 36 U         | 44 U     |
| Endosulfan sulfate     | µg/Kg        | 36 U      | NS           | 38 U         | 35 U         | NS        | 38 U      | 36 U      | 36 U         | 44 U     |
| 4,4'-DDT               | µg/Kg        | 36 U      | NS           | 38 U         | 35 U         | NS        | 38 U      | 36 U      | 36 U         | 44 U     |
| Methoxychlor           | µg/Kg        | 180 U     | NS           | 190 U        | 170 U        | NS        | 190 U     | 180 U     | 180 U        | 220 U    |
| Endrin ketone          | µg/Kg        | 36 U      | NS           | 38 U         | 35 U         | NS        | 38 U      | 36 U      | 36 U         | 44 U     |
| Endrin aldehyde        | µg/Kg        | NS        | NS           | NS           | NS           | NS        | NS        | NS        | NS           | NS       |
| alpha-Chlordane        | µg/Kg        | 180 U     | NS           | 190 U        | 170 U        | NS        | 190 U     | 180 U     | 180 U        | 220 U    |
| gamma-Chlordane        | µg/Kg        | 180 U     | NS           | 190 U        | 170 U        | NS        | 190 U     | 180 U     | 180 U        | 220 U    |
| Toxaphene              | µg/Kg        | 360 U     | NS           | 380 U        | 350 U        | NS        | 380 U     | 360 U     | 360 U        | 440 U    |
| Aroclor-1016           | µg/Kg        | 180 U     | NS           | 190 U        | 170 U        | NS        | 190 U     | 180 U     | 180 U        | 220 U    |
| Aroclor-1221           | µg/Kg        | 180 U     | NS           | 190 U        | 170 U        | NS        | 190 U     | 180 U     | 180 U        | 220 U    |
| Aroclor-1232           | µg/Kg        | 180 U     | NS           | 190 U        | 170 U        | NS        | 190 U     | 180 U     | 180 U        | 220 U    |
| Aroclor-1242           | µg/Kg        | 180 U     | NS           | 190 U        | 170 U        | NS        | 190 U     | 180 U     | 180 U        | 220 U    |
| Aroclor-1248           | µg/Kg        | 180 U     | NS           | 190 U        | 170 U        | NS        | 190 U     | 180 U     | 180 U        | 220 U    |
| Aroclor-1254           | µg/Kg        | 360 U     | NS           | 380 U        | 350 U        | NS        | 380 U     | 360 U     | 360 U        | 440 U    |
| Aroclor-1260           | µg/Kg        | 360 U     | NS           | 380 U        | 350 U        | NS        | 380 U     | 360 U     | 360 U        | 440 U    |
| <b>HERBICIDES</b>      |              |           |              |              |              |           |           |           |              |          |
| 2,4-D                  | µg/Kg        | 57 U J    | NS           | 60 U J       | 54 U J       | NS        | 60 U J    | 56 U J    | 56 U J       | 68 U J   |
| 2,4-DB                 | µg/Kg        | 57 U J    | NS           | 60 U J       | 54 U J       | NS        | 60 U J    | 56 U J    | 56 U J       | 68 U J   |
| 2,4,5-T                | µg/Kg        | 6 U J     | NS           | 6 U J        | 5 U J        | NS        | 6 U J     | 6 U J     | 6 U J        | 7 U J    |
| 2,4,5-TP (Silvex)      | µg/Kg        | 6 U J     | NS           | 6 U J        | 5 U J        | NS        | 6 U J     | 6 U J     | 6 U J        | 7 U J    |
| Dalapon                | µg/Kg        | 140 U J   | NS           | 150 U J      | 130 U J      | NS        | 140 U J   | 130 U J   | 130 U J      | 160 U J  |
| Dicamba                | µg/Kg        | 6 U J     | NS           | 6 U J        | 5 U J        | NS        | 6 U J     | 6 U J     | 6 U J        | 7 U J    |
| Dichloroprop           | µg/Kg        | 57 U J    | NS           | 60 U J       | 54 U J       | NS        | 60 U J    | 56 U J    | 56 U J       | 68 U J   |
| Dinoseb                | µg/Kg        | 28 U J    | NS           | 30 U J       | 27 U J       | NS        | 30 U J    | 28 U J    | 28 U J       | 34 U J   |
| MCPA                   | µg/Kg        | 5700 U J  | NS           | 6000 U J     | 5400 U J     | NS        | 6000 U J  | 5600 U J  | 5600 U J     | 6800 U J |
| MCPP                   | µg/Kg        | 5700 U J  | NS           | 6000 U J     | 5400 U J     | NS        | 6000 U J  | 5600 U J  | 5600 U J     | 6800 U J |
| <b>METALS</b>          |              |           |              |              |              |           |           |           |              |          |
| Aluminum               | mg/kg        | 21400     | NS           | 18400        | 16500        | NS        | 15700     | 16700     | 18100        | 21700    |
| Antimony               | mg/kg        | 9 U J     | NS           | 9.2 U J      | 10.5 U J     | NS        | 10.2 U J  | 9.8 U J   | 10.5 U J     | 12.3 U J |
| Arsenic                | mg/kg        | 4.9       | NS           | 7.6 J        | 4.8 J        | NS        | 3.6 J     | 5.5 J     | 5.2 J        | 6.1 J    |
| Barium                 | mg/kg        | 74.7      | NS           | 107          | 70           | NS        | 96.2      | 69        | 67           | 188      |
| Beryllium              | mg/kg        | 1.1       | NS           | 1.1          | 0.9 J        | NS        | 0.98      | 1.1       | 0.98         | 1.3      |
| Cadmium                | mg/kg        | 4.2       | NS           | 1.8          | 2.5          | NS        | 2.1       | 2.4       | 2.6          | 2.7      |
| Calcium                | mg/kg        | 9720      | NS           | 3270         | 10800        | NS        | 1980      | 6970      | 11400        | 5440     |
| Chromium               | mg/kg        | 33.9      | NS           | 27.4         | 29.4         | NS        | 22.6      | 31.1      | 31.7         | 29.6     |
| Cobalt                 | mg/kg        | 19        | NS           | 11.5         | 16.2         | NS        | 11.5      | 16.1      | 16.2         | 13.9     |
| Copper                 | mg/kg        | 20.3 J    | NS           | 21.4         | 22.8         | NS        | 18.4      | 22.7      | 21.3         | 32       |
| Iron                   | mg/kg        | 38900     | NS           | 32000        | 37300        | NS        | 27800     | 36000     | 39400        | 33500    |
| Lead                   | mg/kg        | 7.8 J     | NS           | 13.6 R       | 4.5 R        | NS        | 8.4 R     | 8 R       | 4.1 R        | 15.5 R   |
| Magnesium              | mg/kg        | 7540      | NS           | 5470         | 7570         | NS        | 4150      | 7830      | 8620         | 5710     |
| Manganese              | mg/kg        | 834       | NS           | 578          | 846          | NS        | 632       | 577       | 733          | 1420     |
| Mercury                | mg/kg        | 0.03 U    | NS           | 0.04 U       | 0.07 J       | NS        | 0.04 U    | 0.07 J    | 0.07 J       | 0.1 J    |
| Nickel                 | mg/kg        | 51.3      | NS           | 34.5         | 46.8         | NS        | 20.9      | 43.8      | 48.1         | 38.5     |
| Potassium              | mg/kg        | 1940      | NS           | 1970         | 1470         | NS        | 1530      | 1920      | 1580         | 2790     |
| Selenium               | mg/kg        | 0.32 U J  | NS           | 0.21 U J     | 0.19 U J     | NS        | 0.19 U J  | 0.15 U J  | 0.16 U J     | 0.27 U J |
| Silver                 | mg/kg        | 1.3 U J   | NS           | 1.5 J        | 1.7 U        | NS        | 1.7 U     | 1.8 U     | 1.7 U        | 2 U      |
| Sodium                 | mg/kg        | 111 J     | NS           | 53 U         | 63.2 J       | NS        | 59.3 U    | 56.9 U    | 60.7 U       | 71.1 U   |
| Thallium               | mg/kg        | 0.52 U    | NS           | 0.59 U J     | 0.53 U J     | NS        | 0.53 U J  | 0.42 U J  | 0.46 U J     | 0.74 U J |
| Vanadium               | mg/kg        | 28.3      | NS           | 28.2         | 21           | NS        | 27.4      | 25.4      | 27.2         | 33.8     |
| Zinc                   | mg/kg        | 84        | NS           | 78.4         | 74.5         | NS        | 56        | 79.8      | 102          | 107      |
| Cyanide                | mg/kg        | 0.68 U    | NS           | 0.72 U       | 0.65 U       | NS        | 0.7 U     | 0.67 U    | 0.65 U       | 0.79 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
 SOIL ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | SOIL B-24    | SOIL B-24    | SOIL B-25 | SOIL B-25 | SOIL B-25 | SOIL B-25      | SOIL B-27      | SOIL B-27    |
|----------------------------|--------------|--------------|-----------|-----------|-----------|----------------|----------------|--------------|
| DEPTH                      | 2-4          | 4-6          | 0-2       | 2-4       | 4-6       | 4-6            | 0-2            | 2-4          |
| DATE                       | 12/03/91     | 12/03/91     | 12/03/91  | 12/03/91  | 12/03/91  | 12/03/91       | 12/04/91       | 12/04/91     |
| ES ID                      | S1203-80 (3) | S1203-81 (3) | S1203-82  | S1203-83  | S1203-84  | S1203-84RE (4) | S1204-88 (2,3) | S1204-87 (3) |
| LAB ID                     | 150023       | 150024       | 150025    | 150026    | 150027    | 150027         | 150235         | 150236       |
| COMPOUND                   | UNITS        | UNITS        | UNITS     | UNITS     | UNITS     | UNITS          | UNITS          | UNITS        |
| <b>VOCs</b>                |              |              |           |           |           |                |                |              |
| Chloromethane              | µg/Kg        | 11 U         | 11 U      | 13 U      | 12 U      | 11 U           | 11 U J         | 12 U         |
| Bromomethane               | µg/Kg        | 11 U         | 11 U      | 13 U      | 12 U      | 11 U           | 11 U J         | 12 U         |
| Vinyl Chloride             | µg/Kg        | 11 U         | 11 U      | 13 U      | 12 U      | 11 U           | 11 U J         | 12 U         |
| Chloroethane               | µg/Kg        | 11 U         | 11 U      | 13 U      | 12 U      | 11 U           | 11 U J         | 12 U         |
| Methylene Chloride         | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 6 U J          | 6 U          |
| Acetone                    | µg/Kg        | 11 U         | 11 U      | 13 U      | 12 U      | 11 U           | 12 U J         | 12 U         |
| Carbon Disulfide           | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| 1,1-Dichloroethene         | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| 1,1-Dichloroethane         | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| 1,2-Dichloroethene (total) | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Chloroform                 | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| 1,2-Dichloroethane         | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| 2-Butanone                 | µg/Kg        | 11 U         | 11 U      | 13 U      | 12 U      | 11 U           | 11 U J         | 12 U         |
| 1,1,1-Trichloroethane      | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Carbon Tetrachloride       | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Vinyl Acetate              | µg/Kg        | 11 U         | 11 U      | 13 U      | 12 U      | 11 U           | 11 U J         | 12 U         |
| Bromodichloromethane       | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| 1,2-Dichloropropane        | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| cis-1,3-Dichloropropene    | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Trichloroethene            | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 10           |
| Dibromochloromethane       | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| 1,1,2-Trichloroethane      | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Benzene                    | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| trans-1,3-Dichloropropene  | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Bromoform                  | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| 4-Methyl-2-Pentanone       | µg/Kg        | 11 U         | 11 U      | 13 U      | 12 U      | 11 U           | 11 U J         | 12 U         |
| 2-Hexanone                 | µg/Kg        | 11 U         | 11 U      | 13 U      | 12 U      | 11 U           | 11 U J         | 12 U         |
| Tetrachloroethene          | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 4 U          |
| 1,1,2,2-Tetrachloroethane  | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Toluene                    | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 1 J            | 1 J            | 6 U          |
| Chlorobenzene              | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Ethylbenzene               | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Styrene                    | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |
| Xylene (total)             | µg/Kg        | 5 U          | 5 U       | 6 U       | 6 U       | 5 U            | 5 U J          | 6 U          |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-24    | SOIL B-24    | SOIL B-25 | SOIL B-25 | SOIL B-25 | SOIL B-25     | SOIL B-25      | SOIL B-27    | SOIL B-27 |
|------------------------------|--------------|--------------|-----------|-----------|-----------|---------------|----------------|--------------|-----------|
| DEPTH                        | 2-4          | 4-6          | 0-2       | 2-4       | 4-6       | 12/03/91      | 12/03/91       | 12/03/91     | 12/04/91  |
| DATE                         | 12/03/91     | 12/03/91     | 12/03/91  | 12/03/91  | 12/03/91  | 12/03/91      | 12/03/91       | 12/03/91     | 12/04/91  |
| ES ID                        | S1203-80 (3) | S1203-81 (3) | S1203-82  | S1203-83  | S1203-84  | S1203-84RE(4) | S1204-86 (2,3) | S1204-87 (3) |           |
| LAB ID                       | 150023       | 150024       | 150025    | 150026    | 150027    |               |                |              |           |
| COMPOUND UNITS               |              |              |           |           |           |               |                |              |           |
| <b>VOCs</b>                  |              |              |           |           |           |               |                |              |           |
| <b>SEMIVOLATILES</b>         |              |              |           |           |           |               |                |              |           |
| Phenol                       | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| bis(2-Chloroethyl) ether     | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2-Chlorophenol               | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 1,3-Dichlorobenzene          | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 1,4-Dichlorobenzene          | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Benzyl Alcohol               | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 1,2-Dichlorobenzene          | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2-Methylphenol               | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| bis(2-Chloroisopropyl) ether | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 4-Methylphenol               | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| N-Nitroso-dl-n-propylamine   | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Hexachloroethane             | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Nitrobenzene                 | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Isophorone                   | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2-Nitrophenol                | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2,4-Dimethylphenol           | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Benzotic acid                | µg/Kg        | 3500 U       | 3400 U    | 4300 U    | 3600 U    | 3400 U        | NS             | 4100 U       | 3800 U    |
| bis(2-Chloroethoxy) methane  | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2,4-Dichlorophenol           | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 1,2,4-Trichlorobenzene       | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Naphthalene                  | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 4-Chloroaniline              | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Hexachlorobutadiene          | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 4-Chloro-3-methylphenol      | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2-Methylnaphthalene          | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Hexachlorocyclopentadiene    | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2,4,6-Trichlorophenol        | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2,4,5-Trichlorophenol        | µg/Kg        | 3500 U       | 3400 U    | 4300 U    | 3600 U    | 3400 U        | NS             | 4100 U       | 3800 U    |
| 2-Chloronaphthalene          | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2-Nitroaniline               | µg/Kg        | 3500 U       | 3400 U    | 4300 U    | 3600 U    | 3400 U        | NS             | 4100 U       | 3800 U    |
| Dimethylphthalate            | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Acenaphthylene               | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2,6-Dinitrotoluene           | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 3-Nitroaniline               | µg/Kg        | 3500 U       | 3400 U    | 4300 U    | 3600 U    | 3400 U        | NS             | 4100 U       | 3800 U    |
| Acenaphthene                 | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2,4-Dinitrophenol            | µg/Kg        | 3500 U       | 3400 U    | 4300 U    | 3600 U    | 3400 U        | NS             | 4100 U       | 3800 U    |
| 4-Nitrophenol                | µg/Kg        | 3500 U       | 3400 U    | 4300 U    | 3600 U    | 3400 U        | NS             | 4100 U       | 3800 U    |
| Dibenzofuran                 | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 2,4-Dinitrotoluene           | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Diethylphthalate             | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 4-Chlorophenyl-phenylether   | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Fluorene                     | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 4-Nitroaniline               | µg/Kg        | 3500 U       | 3400 U    | 4300 U    | 3600 U    | 3400 U        | NS             | 4100 U       | 3800 U    |
| 4,6-Dinitro-2-methylphenol   | µg/Kg        | 3500 U       | 3400 U    | 4300 U    | 3600 U    | 3400 U        | NS             | 4100 U       | 3800 U    |
| N-Nitrosodiphenylamine (1)   | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 4-Bromophenyl-phenylether    | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Hexachlorobenzene            | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Pentachlorophenol            | µg/Kg        | 3500 U       | 3400 U    | 4300 U    | 3600 U    | 3400 U        | NS             | 4100 U       | 3800 U    |
| Phenanthrene                 | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Anthracene                   | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Carbazole                    | µg/Kg        | NS           | NS        | NS        | NS        | NS            | NS             | NS           | NS        |
| Di-n-butylphthalate          | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Fluoranthene                 | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 110 J        | 780 U     |
| Pyrene                       | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 90 J         | 780 U     |
| Butylbenzylphthalate         | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| 3,3'-Dichlorobenzidine       | µg/Kg        | 1400 U       | 1400 U    | 1800 U    | 1500 U    | 1400 U        | NS             | 1700 U       | 1600 U    |
| Benzo(a)anthracene           | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Chrysene                     | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| bis(2-Ethylhexyl)phthalate   | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 510 J         | NS             | 840 U        | 780 U     |
| Di-n-octylphthalate          | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Benzo(b)fluoranthene         | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Benzo(k)fluoranthene         | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Benzo(a)pyrene               | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Indeno(1,2,3-cd)pyrene       | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Dibenz(a,h)anthracene        | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |
| Benzo(g,h,i)perylene         | µg/Kg        | 720 U        | 700 U     | 880 U     | 730 U     | 710 U         | NS             | 840 U        | 780 U     |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-24    | SOIL B-24    | SOIL B-25 | SOIL B-25 | SOIL B-25 | SOIL B-25      | SOIL B-27      | SOIL B-27    |          |
|------------------------|--------------|--------------|-----------|-----------|-----------|----------------|----------------|--------------|----------|
| DEPTH                  | 2-4          | 4-6          | 0-2       | 2-4       | 4-6       | 4-6            | 0-2            | 2-4          |          |
| DATE                   | 12/03/91     | 12/03/91     | 12/03/91  | 12/03/91  | 12/03/91  | 12/03/91       | 12/04/91       | 12/04/91     |          |
| ES ID                  | S1203-80 (3) | S1203-81 (3) | S1203-82  | S1203-83  | S1203-84  | S1203-84RE (4) | S1204-86 (2,3) | S1204-87 (3) |          |
| LAB ID                 | 150023       | 150024       | 150025    | 150026    | 150027    | 150027         | 150235         | 150236       |          |
| COMPOUND               | UNITS        |              |           |           |           |                |                |              |          |
| <b>PESTICIDES/PCBs</b> |              |              |           |           |           |                |                |              |          |
| alpha-BHC              | µg/Kg        | 17 U         | 17 U      | 21 U      | 18 U      | 17 U           | NS             | 20 U         | 19 U     |
| beta-BHC               | µg/Kg        | 17 U         | 17 U      | 21 U      | 18 U      | 17 U           | NS             | 20 U         | 19 U     |
| delta-BHC              | µg/Kg        | 17 U         | 17 U      | 21 U      | 18 U      | 17 U           | NS             | 20 U         | 19 U     |
| gamma-BHC (Lindane)    | µg/Kg        | 17 U         | 17 U      | 21 U      | 18 U      | 17 U           | NS             | 20 U         | 19 U     |
| Heptachlor             | µg/Kg        | 17 U         | 17 U      | 21 U      | 18 U      | 17 U           | NS             | 20 U         | 19 U     |
| Aldrin                 | µg/Kg        | 17 U         | 17 U      | 21 U      | 18 U      | 17 U           | NS             | 20 U         | 19 U     |
| Heptachlor epoxide     | µg/Kg        | 17 U         | 17 U      | 21 U      | 18 U      | 17 U           | NS             | 20 U         | 19 U     |
| Endosulfan I           | µg/Kg        | 17 U         | 17 U      | 21 U      | 18 U      | 17 U           | NS             | 20 U         | 19 U     |
| Dieldrin               | µg/Kg        | 34 U         | 34 U      | 43 U      | 36 U      | 34 U           | NS             | 41 U         | 38 U     |
| 4,4'-DDE               | µg/Kg        | 34 U         | 34 U      | 43 U      | 36 U      | 34 U           | NS             | 41 U         | 38 U     |
| Endrin                 | µg/Kg        | 34 U         | 34 U      | 43 U      | 36 U      | 34 U           | NS             | 41 U         | 38 U     |
| Endosulfan II          | µg/Kg        | 34 U         | 34 U      | 43 U      | 36 U      | 34 U           | NS             | 41 U         | 38 U     |
| 4,4'-DDD               | µg/Kg        | 34 U         | 34 U      | 43 U      | 36 U      | 34 U           | NS             | 41 U         | 38 U     |
| Endosulfan sulfate     | µg/Kg        | 34 U         | 34 U      | 43 U      | 36 U      | 34 U           | NS             | 41 U         | 38 U     |
| 4,4'-DDT               | µg/Kg        | 34 U         | 34 U      | 43 U      | 36 U      | 34 U           | NS             | 41 U         | 38 U     |
| Methoxychlor           | µg/Kg        | 170 U        | 170 U     | 210 U     | 180 U     | 170 U          | NS             | 200 U        | 190 U    |
| Endrin ketone          | µg/Kg        | 34 U         | 34 U      | 43 U      | 36 U      | 34 U           | NS             | 41 U         | 38 U     |
| Endrin aldehyde        | µg/Kg        | NS           | NS        | NS        | NS        | NS             | NS             | NS           | NS       |
| alpha-Chlordane        | µg/Kg        | 170 U        | 170 U     | 210 U     | 180 U     | 170 U          | NS             | 200 U        | 190 U    |
| gamma-Chlordane        | µg/Kg        | 170 U        | 170 U     | 210 U     | 180 U     | 170 U          | NS             | 200 U        | 190 U    |
| Toxaphene              | µg/Kg        | 340 U        | 340 U     | 430 U     | 360 U     | 340 U          | NS             | 410 U        | 380 U    |
| Aroclor-1016           | µg/Kg        | 170 U        | 170 U     | 210 U     | 180 U     | 170 U          | NS             | 200 U        | 190 U    |
| Aroclor-1221           | µg/Kg        | 170 U        | 170 U     | 210 U     | 180 U     | 170 U          | NS             | 200 U        | 190 U    |
| Aroclor-1232           | µg/Kg        | 170 U        | 170 U     | 210 U     | 180 U     | 170 U          | NS             | 200 U        | 190 U    |
| Aroclor-1242           | µg/Kg        | 170 U        | 170 U     | 210 U     | 180 U     | 170 U          | NS             | 200 U        | 190 U    |
| Aroclor-1248           | µg/Kg        | 170 U        | 170 U     | 210 U     | 180 U     | 170 U          | NS             | 200 U        | 190 U    |
| Aroclor-1254           | µg/Kg        | 340 U        | 340 U     | 430 U     | 360 U     | 340 U          | NS             | 410 U        | 380 U    |
| Aroclor-1260           | µg/Kg        | 340 U        | 340 U     | 430 U     | 360 U     | 340 U          | NS             | 410 U        | 380 U    |
| <b>HERBICIDES</b>      |              |              |           |           |           |                |                |              |          |
| 2,4-D                  | µg/Kg        | 55 U J       | 53 U J    | 66 U J    | 55 U J    | 53 U J         | NS             | 63 U J       | 59 U J   |
| 2,4-DB                 | µg/Kg        | 55 U J       | 53 U J    | 66 U J    | 55 U J    | 53 U J         | NS             | 63 U J       | 59 U J   |
| 2,4,5-T                | µg/Kg        | 5 U J        | 5 U J     | 7 U J     | 6 U J     | 5 U J          | NS             | 6 U J        | 6 U J    |
| 2,4,5-TP (Silvex)      | µg/Kg        | 5 U J        | 5 U J     | 7 U J     | 6 U J     | 5 U J          | NS             | 6 U J        | 6 U J    |
| Dalapon                | µg/Kg        | 130 U J      | 130 U J   | 160 U J   | 130 U J   | 130 U J        | NS             | 150 U J      | 140 U J  |
| Dicamba                | µg/Kg        | 5 U J        | 5 U J     | 7 U J     | 6 U J     | 5 U J          | NS             | 6 U J        | 6 U J    |
| Dichloroprop           | µg/Kg        | 55 U J       | 53 U J    | 66 U J    | 55 U J    | 53 U J         | NS             | 63 U J       | 59 U J   |
| Dinoseb                | µg/Kg        | 27 U J       | 27 U J    | 33 U J    | 28 U J    | 27 U J         | NS             | 32 U J       | 30 U J   |
| MCPA                   | µg/Kg        | 5500 U J     | 5300 U J  | 6600 U J  | 5500 U J  | 5300 U J       | NS             | 6300 U J     | 5900 U J |
| MCPP                   | µg/Kg        | 5500 U J     | 5300 U J  | 6600 U J  | 5500 U J  | 5300 U J       | NS             | 6300 U J     | 5900 U J |
| <b>METALS</b>          |              |              |           |           |           |                |                |              |          |
| Aluminum               | mg/kg        | 14200        | 17200     | 16300     | 16200     | 19800          | NS             | 14800        | 17800    |
| Antimony               | mg/kg        | 9.2 U J      | 9.8 U J   | 12.4 U J  | 7.5 U J   | 11.7 U J       | NS             | 12.4 U J     | 8.4 U J  |
| Arsenic                | mg/kg        | 5.2          | 3.1 J     | 5 J       | 6.2 J     | 3.5 J          | NS             | 5.5 J        | 4.6 J    |
| Barium                 | mg/kg        | 59.8         | 67.6      | 104       | 68.6      | 54.9           | NS             | 114          | 98.7     |
| Beryllium              | mg/kg        | 0.62 J       | 1         | 0.99 J    | 0.88      | 1.2            | NS             | 0.89 R       | 1 R      |
| Cadmium                | mg/kg        | 2.1          | 2.2       | 2.3       | 2.3       | 2.7            | NS             | 1.8          | 2.4      |
| Calcium                | mg/kg        | 92200        | 33900     | 3970      | 16900     | 33200          | NS             | 4570         | 4930     |
| Chromium               | mg/kg        | 24.2         | 29.3      | 25.6      | 28.5      | 24.5           | NS             | 22.4         | 28       |
| Cobalt                 | mg/kg        | 12           | 15.4      | 12.9      | 16        | 19.7           | NS             | 8.1 J        | 18       |
| Copper                 | mg/kg        | 19.5         | 22.5      | 25.8      | 26.3      | 17.5           | NS             | 29.9         | 19.7     |
| Iron                   | mg/kg        | 30800        | 36100     | 31200     | 35800     | 41100          | NS             | 23200        | 36100    |
| Lead                   | mg/kg        | 6.1 R        | 3.7 R     | 14 R      | 7.4 R     | 3.5 R          | NS             | 33.2         | 12 R     |
| Magnesium              | mg/kg        | 8340         | 8170      | 5190      | 6950      | 9190           | NS             | 4000         | 6170     |
| Manganese              | mg/kg        | 622          | 920       | 653       | 700       | 1030           | NS             | 526          | 1120     |
| Mercury                | mg/kg        | 0.04 U       | 0.04 J    | 0.06 J    | 0.04 U    | 0.04 U         | NS             | 0.09 J       | 0.04 J   |
| Nickel                 | mg/kg        | 38.1         | 43.8      | 31.4      | 45.6      | 54.6           | NS             | 25.3         | 39.5     |
| Potassium              | mg/kg        | 1580         | 2190      | 2130      | 1550      | 1660           | NS             | 1850         | 1920     |
| Selenium               | mg/kg        | 0.21 U J     | 0.18 U J  | 0.18 U J  | 0.15 U J  | 0.18 U J       | NS             | 0.22 U J     | 0.14 U J |
| Silver                 | mg/kg        | 1.5 U        | 1.6 U     | 2 U       | 1.2 U     | 1.9 U          | NS             | 2 U          | 1.4 U    |
| Sodium                 | mg/kg        | 104 J        | 106 J     | 72 U      | 55.4 J    | 106 J          | NS             | 71.7 U       | 48.5 U   |
| Thallium               | mg/kg        | 0.6 U J      | 0.51 U J  | 0.5 U J   | 0.42 U J  | 0.5 U J        | NS             | 0.61 U J     | 0.39 U J |
| Vanadium               | mg/kg        | 22           | 24.5      | 26.8      | 23.3      | 26.5           | NS             | 25.6         | 28       |
| Zinc                   | mg/kg        | 69.8         | 88.6      | 93.2      | 99        | 66.9           | NS             | 284          | 84.4     |
| Cyanide                | mg/kg        | 0.63 U       | 0.59 U    | 0.78 U    | 0.6 U     | 0.62 U         | NS             | 0.6 U        | 0.61 U   |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | SOIL B-28    | SOIL B-28 | SOIL B-28    | SOIL B-28      | SOIL B-28     | SOIL B-28   | SOIL B-28     | SOIL B-28 | SOIL B-29 |
|----------------------------|--------------|-----------|--------------|----------------|---------------|-------------|---------------|-----------|-----------|
| DEPTH                      | 0-2          | 2-4       | 2-4          | 2-4            | 2-4           | 2-4         | 4-6           | 4-6       | 0-2       |
| DATE                       | 12/04/91     | 12/04/91  | 12/04/91     | 12/04/91       | 12/04/91      | 12/04/91    | 12/04/91      | 12/04/91  | 12/04/91  |
| ES ID                      | S1204-88 (3) | S1204-89  | S1204-89A(1) | S1204-89ARE(4) | S1204-89DL(5) | S1204-90(3) | S1204-90RE(4) | S1204-91  | S1204-91  |
| LAB ID                     | 150237       | 150238    | 150240       | 150240         | 150238        | 150241      | 150241        | 150242    | 150242    |
| COMPOUND                   | UNITS        | UNITS     | UNITS        | UNITS          | UNITS         | UNITS       | UNITS         | UNITS     | UNITS     |
| <b>VOCs</b>                |              |           |              |                |               |             |               |           |           |
| Chloromethane              | µg/Kg        | 12 U      | 39 U         | 58 U           | NS            | 59 U        | 1400 U        | NS        | 12 U      |
| Bromomethane               | µg/Kg        | 12 U      | 39 U         | 58 U           | NS            | 59 U        | 1400 U        | NS        | 12 U      |
| Vinyl Chloride             | µg/Kg        | 12 U      | 39 U         | 58 U           | NS            | 59 U        | 1400 U        | NS        | 12 U      |
| Chloroethane               | µg/Kg        | 12 U      | 39 U         | 58 U           | NS            | 59 U        | 1400 U        | NS        | 12 U      |
| Methylene Chloride         | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Acetone                    | µg/Kg        | 12 U      | 39 U         | 58 U           | NS            | 59 U        | 1400 U        | NS        | 12 U      |
| Carbon Disulfide           | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| 1,1-Dichloroethane         | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| 1,1-Dichloroethane         | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| 1,2-Dichloroethane (total) | µg/Kg        | 160       | 2500 J       | 1600           | NS            | 440         | 20000         | NS        | 76        |
| Chloroform                 | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 32          | 690 U         | NS        | 6 U       |
| 1,2-Dichloroethane         | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| 2-Butanone                 | µg/Kg        | 12 U      | 39 U         | 58 U           | NS            | 59 U        | 1400 U        | NS        | 12 U      |
| 1,1,1-Trichloroethane      | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Carbon Tetrachloride       | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Vinyl Acetate              | µg/Kg        | 12 U      | 39 U         | 58 U           | NS            | 59 U        | 1400 U        | NS        | 12 U      |
| Bromodichloromethane       | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| 1,2-Dichloropropane        | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| cis-1,3-Dichloropropene    | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Trichloroethene            | µg/Kg        | 18        | 83           | 74             | NS            | 31          | 2600          | NS        | 49        |
| Dibromochloromethane       | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| 1,1,2-Trichloroethane      | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Benzene                    | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| trans-1,3-Dichloropropene  | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Bromoform                  | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| 4-Methyl-2-Pentanone       | µg/Kg        | 12 U      | 39 U         | 58 U           | NS            | 59 U        | 1400 U        | NS        | 12 U      |
| 2-Hexanone                 | µg/Kg        | 12 U      | 39 U         | 58 U           | NS            | 59 U        | 1400 U        | NS        | 12 U      |
| Tetrachloroethene          | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| 1,1,2,2-Tetrachloroethane  | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Toluene                    | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Chlorobenzene              | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Ethylbenzene               | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Styrene                    | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |
| Xylene (total)             | µg/Kg        | 6 U       | 20 U         | 28 U           | NS            | 29 U        | 690 U         | NS        | 6 U       |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-28    | SOIL B-28 | SOIL B-28    | SOIL B-28      | SOIL B-28     | SOIL B-28   | SOIL B-28     | SOIL B-28 | SOIL B-29 |
|------------------------------|--------------|-----------|--------------|----------------|---------------|-------------|---------------|-----------|-----------|
| DEPTH                        | 0-2          | 2-4       | 2-4          | 2-4            | 2-4           | 2-4         | 4-6           | 4-6       | 0-2       |
| DATE                         | 12/04/91     | 12/04/91  | 12/04/91     | 12/04/91       | 12/04/91      | 12/04/91    | 12/04/91      | 12/04/91  | 12/04/91  |
| ES ID                        | S1204-88 (3) | S1204-89  | S1204-89A(1) | S1204-89ARE(4) | S1204-89DL(5) | S1204-90(3) | S1204-90RE(4) | S1204-91  | S1204-91  |
| LAB ID                       | 150237       | 150238    | 150240       | 150240         | 150238        | 150241      | 150241        | 150242    | 150242    |
| COMPOUND                     | UNITS        |           |              |                |               |             |               |           |           |
| VOCs                         |              |           |              |                |               |             |               |           |           |
| SEMIVOLATILES                |              |           |              |                |               |             |               |           |           |
| Phenol                       | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| bis(2-Chloroethyl) ether     | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2-Chlorophenol               | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 1,3-Dichlorobenzene          | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 1,4-Dichlorobenzene          | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Benzyl Alcohol               | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 1,2-Dichlorobenzene          | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2-Methylphenol               | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| bis(2-Chloroisopropyl) ether | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 4-Methylphenol               | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| N-Nitroso-di-n-propylamine   | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Hexachloroethane             | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Nitrobenzene                 | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Isophorone                   | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2-Nitrophenol                | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2,4-Dimethylphenol           | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Benzoic acid                 | µg/Kg        | 3500 U    | 3700 U       | 3700 U         | NS            | NS          | 3500 U        | NS        | 3800 U    |
| bis(2-Chloroethoxy) methane  | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2,4-Dichlorophenol           | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 1,2,4-Trichlorobenzene       | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Naphthalene                  | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 4-Chloroaniline              | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Hexachlorobutadiene          | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 4-Chloro-3-methylphenol      | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2-Methylnaphthalene          | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Hexachlorocyclopentadiene    | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2,4,6-Trichlorophenol        | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2,4,5-Trichlorophenol        | µg/Kg        | 3500 U    | 3700 U       | 3700 U         | NS            | NS          | 3500 U        | NS        | 3800 U    |
| 2-Chloronaphthalene          | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2-Nitroaniline               | µg/Kg        | 3500 U    | 3700 U       | 3700 U         | NS            | NS          | 3500 U        | NS        | 3800 U    |
| Dimethylphthalate            | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Acenaphthylene               | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2,6-Dinitrotoluene           | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 3-Nitroaniline               | µg/Kg        | 3500 U    | 3700 U       | 3700 U         | NS            | NS          | 3500 U        | NS        | 3800 U    |
| Acenaphthene                 | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2,4-Dinitrophenol            | µg/Kg        | 3500 U    | 3700 U       | 3700 U         | NS            | NS          | 3500 U        | NS        | 3800 U    |
| 4-Nitrophenol                | µg/Kg        | 3500 U    | 3700 U       | 3700 U         | NS            | NS          | 3500 U        | NS        | 3800 U    |
| Dibenzofuran                 | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 2,4-Dinitrotoluene           | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Diethylphthalate             | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 4-Chlorophenyl-phenyl ether  | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Fluorene                     | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 4-Nitroaniline               | µg/Kg        | 3500 U    | 3700 U       | 3700 U         | NS            | NS          | 3500 U        | NS        | 3800 U    |
| 4,6-Dinitro-2-methylphenol   | µg/Kg        | 3500 U    | 3700 U       | 3700 U         | NS            | NS          | 3500 U        | NS        | 3800 U    |
| N-Nitrosodiphenylamine (1)   | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 4-Bromophenyl-phenyl ether   | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Hexachlorobenzene            | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Pentachlorophenol            | µg/Kg        | 3500 U    | 3700 U       | 3700 U         | NS            | NS          | 3500 U        | NS        | 3800 U    |
| Phenanthrene                 | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Anthracene                   | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Carbazole                    | µg/Kg        | NS        | NS           | NS             | NS            | NS          | NS            | NS        | NS        |
| Di-n-butylphthalate          | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Fluoranthene                 | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 72 J      |
| Pyrene                       | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Butylbenzylphthalate         | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| 3,3'-Dichlorobenzidine       | µg/Kg        | 1400 U    | 1500 U       | 1500 U         | NS            | NS          | 1500 U        | NS        | 1800 U    |
| Benzo(a)anthracene           | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Chrysene                     | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| bis(2-Ethylhexyl)phthalate   | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Di-n-octylphthalate          | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Benzo(b)fluoranthene         | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Benzo(k)fluoranthene         | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Benzo(a)pyrene               | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Indeno(1,2,3-cd)pyrene       | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Dibenz(a,h)anthracene        | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |
| Benzo(g,h,i)perylene         | µg/Kg        | 710 U     | 760 U        | 760 U          | NS            | NS          | 730 U         | NS        | 790 U     |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-28    | SOIL B-28 | SOIL B-28    | SOIL B-28      | SOIL B-28     | SOIL B-28   | SOIL B-28     | SOIL B-28 | SOIL B-29 |
|------------------------|--------------|-----------|--------------|----------------|---------------|-------------|---------------|-----------|-----------|
| DEPTH                  | 0-2          | 2-4       | 2-4          | 2-4            | 2-4           | 2-4         | 4-6           | 4-6       | 0-2       |
| DATE                   | 12/04/91     | 12/04/91  | 12/04/91     | 12/04/91       | 12/04/91      | 12/04/91    | 12/04/91      | 12/04/91  | 12/04/91  |
| ES ID                  | S1204-88 (3) | S1204-89  | S1204-89A(1) | S1204-89ARE(4) | S1204-89DL(5) | S1204-90(3) | S1204-90RE(4) | S1204-91  | S1204-91  |
| LAB ID                 | 150237       | 150238    | 150240       | 150240         | 150238        | 150241      | 150241        | 150242    | 150242    |
| COMPOUND VOCs          | UNITS        | UNITS     | UNITS        | UNITS          | UNITS         | UNITS       | UNITS         | UNITS     | UNITS     |
| <b>PESTICIDES/PCBs</b> |              |           |              |                |               |             |               |           |           |
| alpha-BHC              | µg/kg        | 17 U      | 18 U         | 19 U           | 19 U J        | NS          | 18 U          | 18 U J    | 19 U      |
| beta-BHC               | µg/kg        | 17 U      | 18 U         | 19 U           | 19 U J        | NS          | 18 U          | 18 U J    | 19 U      |
| delta-BHC              | µg/kg        | 17 U      | 18 U         | 19 U           | 19 U J        | NS          | 18 U          | 18 U J    | 19 U      |
| gamma-BHC (Lindane)    | µg/kg        | 17 U      | 18 U         | 19 U           | 19 U J        | NS          | 18 U          | 18 U J    | 19 U      |
| Heptachlor             | µg/kg        | 17 U      | 18 U         | 19 U           | 19 U J        | NS          | 18 U          | 18 U J    | 19 U      |
| Aldrin                 | µg/kg        | 17 U      | 18 U         | 19 U           | 19 U J        | NS          | 18 U          | 18 U J    | 19 U      |
| Heptachlor epoxide     | µg/kg        | 17 U      | 18 U         | 19 U           | 19 U J        | NS          | 18 U          | 18 U J    | 19 U      |
| Endosulfan I           | µg/kg        | 17 U      | 18 U         | 19 U           | 19 U J        | NS          | 18 U          | 18 U J    | 19 U      |
| Dieldrin               | µg/kg        | 35 U      | 37 U         | 37 U           | 37 U J        | NS          | 35 U          | 35 U J    | 38 U      |
| 4,4'-DDE               | µg/kg        | 35 U      | 37 U         | 37 U           | 37 U J        | NS          | 35 U          | 35 U J    | 38 U      |
| Endrin                 | µg/kg        | 35 U      | 37 U         | 37 U           | 37 U J        | NS          | 35 U          | 35 U J    | 38 U      |
| Endosulfan II          | µg/kg        | 35 U      | 37 U         | 37 U           | 37 U J        | NS          | 35 U          | 35 U J    | 38 U      |
| 4,4'-DDD               | µg/kg        | 35 U      | 37 U         | 37 U           | 37 U J        | NS          | 35 U          | 35 U J    | 38 U      |
| Endosulfan sulfate     | µg/kg        | 35 U      | 37 U         | 37 U           | 37 U J        | NS          | 35 U          | 35 U J    | 38 U      |
| 4,4'-DDT               | µg/kg        | 35 U      | 37 U         | 37 U           | 37 U J        | NS          | 35 U          | 35 U J    | 38 U      |
| Methoxychlor           | µg/kg        | 170 U     | 180 U        | 190 U          | 190 U J       | NS          | 180 U         | 180 U J   | 190 U     |
| Endrin ketone          | µg/kg        | 35 U      | 37 U         | 37 U           | 37 U J        | NS          | 35 U          | 35 U J    | 38 U      |
| Endrin aldehyde        | µg/kg        | NS        | NS           | NS             | NS            | NS          | NS            | NS        | NS        |
| alpha-Chlordane        | µg/kg        | 170 U     | 180 U        | 190 U          | 190 U J       | NS          | 180 U         | 180 U J   | 190 U     |
| gamma-Chlordane        | µg/kg        | 170 U     | 180 U        | 190 U          | 190 U J       | NS          | 180 U         | 180 U J   | 190 U     |
| Toxaphene              | µg/kg        | 350 U     | 370 U        | 370 U          | 370 U J       | NS          | 350 U         | 350 U J   | 380 U     |
| Aroclor-1016           | µg/kg        | 170 U     | 180 U        | 190 U          | 190 U J       | NS          | 180 U         | 180 U J   | 190 U     |
| Aroclor-1221           | µg/kg        | 170 U     | 180 U        | 190 U          | 190 U J       | NS          | 180 U         | 180 U J   | 190 U     |
| Aroclor-1232           | µg/kg        | 170 U     | 180 U        | 190 U          | 190 U J       | NS          | 180 U         | 180 U J   | 190 U     |
| Aroclor-1242           | µg/kg        | 170 U     | 180 U        | 190 U          | 190 U J       | NS          | 180 U         | 180 U J   | 190 U     |
| Aroclor-1248           | µg/kg        | 170 U     | 180 U        | 190 U          | 190 U J       | NS          | 180 U         | 180 U J   | 190 U     |
| Aroclor-1254           | µg/kg        | 350 U     | 370 U        | 370 U          | 370 U J       | NS          | 350 U         | 350 U J   | 380 U     |
| Aroclor-1260           | µg/kg        | 350 U     | 370 U        | 370 U          | 370 U J       | NS          | 390           | 230 J     | 380 U     |
| <b>HERBICIDES</b>      |              |           |              |                |               |             |               |           |           |
| 2,4-D                  | µg/kg        | 54 U J    | 58 U J       | 59 U           | NS            | NS          | 55 U          | NS        | 61 U      |
| 2,4-DB                 | µg/kg        | 54 U J    | 58 U J       | 59 U           | NS            | NS          | 55 U          | NS        | 61 U      |
| 2,4,5-T                | µg/kg        | 5 U J     | 6 U J        | 5.9 U          | NS            | NS          | 5.5 U         | NS        | 6.1 U     |
| 2,4,5-TP (Silvex)      | µg/kg        | 5 U J     | 6 U J        | 5.9 U          | NS            | NS          | 5.5 U         | NS        | 6.1 U     |
| Dalapon                | µg/kg        | 130 U J   | 140 U J      | 140 U          | NS            | NS          | 130 U         | NS        | 150 U     |
| Dicamba                | µg/kg        | 5 U J     | 6 U J        | 5.9 U          | NS            | NS          | 5.5 U         | NS        | 6.1 U     |
| Dichloroprop           | µg/kg        | 54 U J    | 58 U J       | 59 U           | NS            | NS          | 55 U          | NS        | 61 U      |
| Dinoseb                | µg/kg        | 27 U J    | 29 U J       | 28 U           | NS            | NS          | 28 U          | NS        | 30 U      |
| MCPA                   | µg/kg        | 5400 U J  | 5800 U J     | 5900 U         | NS            | NS          | 5500 U        | NS        | 6100 U    |
| MCPP                   | µg/kg        | 5400 U J  | 5800 U J     | 5900 U         | NS            | NS          | 5500 U        | NS        | 6100 U    |
| <b>METALS</b>          |              |           |              |                |               |             |               |           |           |
| Aluminum               | mg/kg        | 14500     | 15800        | 20100          | NS            | NS          | 19200         | NS        | 19100     |
| Antimony               | mg/kg        | 12.1 U J  | 7.6 U J      | 6.8 U J        | NS            | NS          | 8.9 U J       | NS        | 11.2 U J  |
| Arsenic                | mg/kg        | 3.9 J     | 6.3 J        | 6.1            | NS            | NS          | 4.5           | NS        | 5.1       |
| Barium                 | mg/kg        | 94.7      | 69.5         | 71.5           | NS            | NS          | 50.4          | NS        | 144       |
| Beryllium              | mg/kg        | 0.88 R    | 0.94 R       | 1 R            | NS            | NS          | 0.99 R        | NS        | 1.2 R     |
| Cadmium                | mg/kg        | 2.6       | 2.4          | 4.1            | NS            | NS          | 3.9           | NS        | 3.8       |
| Calcium                | mg/kg        | 3540      | 2870         | 3010 J         | NS            | NS          | 10900 J       | NS        | 5110 J    |
| Chromium               | mg/kg        | 21.5      | 26.3         | 30.5           | NS            | NS          | 29            | NS        | 26.6      |
| Cobalt                 | mg/kg        | 14.3      | 16.7         | 17.7           | NS            | NS          | 14.4          | NS        | 13.9      |
| Copper                 | mg/kg        | 23.2      | 24.6         | 25.6           | NS            | NS          | 13.6          | NS        | 28.9      |
| Iron                   | mg/kg        | 26200     | 35800        | 44000          | NS            | NS          | 40900         | NS        | 32000     |
| Lead                   | mg/kg        | 16        | 8.1 R        | 12.4 J         | NS            | NS          | 5.5 J         | NS        | 12.8 J    |
| Magnesium              | mg/kg        | 4240      | 6370         | 7500           | NS            | NS          | 7720          | NS        | 5300      |
| Manganese              | mg/kg        | 1290      | 1070         | 938            | NS            | NS          | 646           | NS        | 1700      |
| Mercury                | mg/kg        | 0.05 J    | 0.04 U       | 0.04 U         | NS            | NS          | 0.03 U        | NS        | 0.07 J    |
| Nickel                 | mg/kg        | 28.3      | 43.1         | 48.2           | NS            | NS          | 46.9          | NS        | 35.3      |
| Potassium              | mg/kg        | 1590      | 1550         | 1980           | NS            | NS          | 1700          | NS        | 2480      |
| Selenium               | mg/kg        | 0.14 U J  | 0.22 U J     | 0.19 U J       | NS            | NS          | 0.14 U J      | NS        | 0.13 U J  |
| Silver                 | mg/kg        | 2 U       | 1.2 U        | 0.43 U         | NS            | NS          | 0.56 U        | NS        | 1.1 J     |
| Sodium                 | mg/kg        | 69.9 U    | 44.2 U       | 63.1 J         | NS            | NS          | 84.3 J        | NS        | 66 J      |
| Thallium               | mg/kg        | 0.39 U J  | 0.61 U J     | 0.54 U         | NS            | NS          | 0.39 U        | NS        | 0.37 U    |
| Vanadium               | mg/kg        | 19.1      | 22.4         | 26             | NS            | NS          | 23.7          | NS        | 32.6      |
| Zinc                   | mg/kg        | 131       | 136          | 168            | NS            | NS          | 112           | NS        | 101       |
| Cyanide                | mg/kg        | 0.65 U    | 0.65 U       | 0.62 U         | NS            | NS          | 0.62 U        | NS        | 0.71 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL          | SOIL         | SOIL           | SOIL     | SOIL          | SOIL     | SOIL          | SOIL         |  |
|----------------------------|----------|---------------|--------------|----------------|----------|---------------|----------|---------------|--------------|--|
|                            | LOCATION | B-29          | B-29         | B-29           | B-29     | B-29          | B-29     | B-29          | B-29         |  |
|                            | DEPTH    | 0-2           | 0-2          | 0-2            | 0-2      | 2-4           | 4-6      | 4-6           | 4-6          |  |
|                            | DATE     | 12/04/91      | 12/04/91     | 12/04/91       | 12/04/91 | 12/04/91      | 12/04/91 | 12/04/91      | 12/04/91     |  |
|                            | ES ID    | S1204-91RE(4) | S1204-91A(1) | S1204-91ARE(1) | S1204-92 | S1204-92RE(4) | S1204-93 | S1204-93RE(4) | S1204-93A(1) |  |
|                            | LAB ID   | 150242        | 150243       | 150243         | 150244   | 150244        | 150245   | 150245        | 150246       |  |
|                            | UNITS    |               |              |                |          |               |          |               |              |  |
| <b>VOCs</b>                |          |               |              |                |          |               |          |               |              |  |
| Chloromethane              | µg/Kg    | NS            | 12 U         | NS             | 41 U     | NS            | 1400 U   | NS            | 1400 U       |  |
| Bromomethane               | µg/Kg    | NS            | 12 U         | NS             | 41 U     | NS            | 1400 U   | NS            | 1400 U       |  |
| Vinyl Chloride             | µg/Kg    | NS            | 12 U         | NS             | 41 U     | NS            | 1400 U   | NS            | 1400 U       |  |
| Chloroethane               | µg/Kg    | NS            | 12 U         | NS             | 41 U     | NS            | 1400 U   | NS            | 1400 U       |  |
| Methylene Chloride         | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Acetone                    | µg/Kg    | NS            | 12 U         | NS             | 42       | NS            | 1400 U   | NS            | 1400 U       |  |
| Carbon Disulfide           | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| 1,1-Dichloroethane         | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| 1,1-Dichloroethane         | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| 1,2-Dichloroethane (total) | µg/Kg    | NS            | 66           | NS             | 610      | NS            | 14000    | NS            | 11000        |  |
| Chloroform                 | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| 1,2-Dichloroethane         | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| 2-Butanone                 | µg/Kg    | NS            | 12 U         | NS             | 41 U     | NS            | 1400 U   | NS            | 1400 U       |  |
| 1,1,1-Trichloroethane      | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Carbon Tetrachloride       | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Vinyl Acetate              | µg/Kg    | NS            | 12 U         | NS             | 41 U     | NS            | 1400 U   | NS            | 1400 U       |  |
| Bromodichloromethane       | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| 1,2-Dichloropropane        | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| cis-1,3-Dichloropropene    | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Trichloroethene            | µg/Kg    | NS            | 58           | NS             | 250      | NS            | 21000    | NS            | 17000        |  |
| Dibromochloromethane       | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| 1,1,2-Trichloroethane      | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Benzene                    | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| trans-1,3-Dichloropropene  | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Bromoform                  | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| 4-Methyl-2-Pentanone       | µg/Kg    | NS            | 12 U         | NS             | 41 U     | NS            | 1400 U   | NS            | 1400 U       |  |
| 2-Hexanone                 | µg/Kg    | NS            | 12 U         | NS             | 41 U     | NS            | 1400 U   | NS            | 1400 U       |  |
| Tetrachloroethene          | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Toluene                    | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Chlorobenzene              | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 620 J    | NS            | 360 J        |  |
| Ethylbenzene               | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Styrene                    | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |
| Xylene (total)             | µg/Kg    | NS            | 6 U          | NS             | 21 U     | NS            | 680 U    | NS            | 700 U        |  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL          | SOIL         | SOIL           | SOIL     | SOIL          | SOIL     | SOIL          | SOIL         |        |
|------------------------------|---------------|--------------|----------------|----------|---------------|----------|---------------|--------------|--------|
| DEPTH                        | B-29          | B-29         | B-29           | B-29     | B-29          | B-29     | B-29          | B-29         |        |
| DATE                         | 12/04/91      | 12/04/91     | 12/04/91       | 12/04/91 | 12/04/91      | 12/04/91 | 12/04/91      | 12/04/91     |        |
| ES ID                        | S1204-91RE(4) | S1204-91A(1) | S1204-91ARE(1) | S1204-92 | S1204-92RE(4) | S1204-93 | S1204-93RE(4) | S1204-93A(1) |        |
| LAB ID                       | 150242        | 150243       | 150243         | 150244   | 150244        | 150245   | 150245        | 150246       |        |
| COMPOUND UNITS               | UNITS         | UNITS        | UNITS          | UNITS    | UNITS         | UNITS    | UNITS         | UNITS        |        |
| VOCs                         |               |              |                |          |               |          |               |              |        |
| SEMIVOLATILES                |               |              |                |          |               |          |               |              |        |
| Phenol                       | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| bis(2-Chloroethyl) ether     | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2-Chlorophenol               | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 1,3-Dichlorobenzene          | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 1,4-Dichlorobenzene          | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Benzyl Alcohol               | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 1,2-Dichlorobenzene          | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2-Methylphenol               | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| bis(2-Chloroisopropyl) ether | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 4-Methylphenol               | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| N-Nitroso-di-n-propylamine   | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Hexachloroethane             | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Nitrobenzene                 | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Isophorone                   | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2-Nitrophenol                | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2,4-Dimethylphenol           | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Benzoic acid                 | µg/Kg         | NS           | 3800 U         | NS       | 3500 U        | NS       | 3500 U        | NS           | 3600 U |
| bis(2-Chloroethoxy) methane  | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2,4-Dichlorophenol           | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 1,2,4-Trichlorobenzene       | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Naphthalene                  | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 4-Chloroaniline              | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Hexachlorobutadiene          | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 4-Chloro-3-methylphenol      | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2-Methylnaphthalene          | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Hexachlorocyclopentadiene    | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2,4,6-Trichlorophenol        | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2,4,5-Trichlorophenol        | µg/Kg         | NS           | 3800 U         | NS       | 3500 U        | NS       | 3500 U        | NS           | 3600 U |
| 2-Chloronaphthalene          | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2-Nitroaniline               | µg/Kg         | NS           | 3800 U         | NS       | 3500 U        | NS       | 3500 U        | NS           | 3600 U |
| Dimethylphthalate            | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Acenaphthylene               | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2,6-Dinitrotoluene           | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 3-Nitroaniline               | µg/Kg         | NS           | 3800 U         | NS       | 3500 U        | NS       | 3500 U        | NS           | 3600 U |
| Acenaphthene                 | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2,4-Dinitrophenol            | µg/Kg         | NS           | 3800 U         | NS       | 3500 U        | NS       | 3500 U        | NS           | 3600 U |
| 4-Nitrophenol                | µg/Kg         | NS           | 3800 U         | NS       | 3500 U        | NS       | 3500 U        | NS           | 3600 U |
| Dibenzofuran                 | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 2,4-Dinitrotoluene           | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Diethylphthalate             | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 4-Chlorophenyl-phenylether   | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Fluorene                     | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 4-Nitroaniline               | µg/Kg         | NS           | 3800 U         | NS       | 3500 U        | NS       | 3500 U        | NS           | 3600 U |
| 4,6-Dinitro-2-methylphenol   | µg/Kg         | NS           | 3800 U         | NS       | 3500 U        | NS       | 3500 U        | NS           | 3600 U |
| N-Nitrosodiphenylamine (1)   | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 4-Bromophenyl-phenylether    | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Hexachlorobenzene            | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Pentachlorophenol            | µg/Kg         | NS           | 3800 U         | NS       | 3500 U        | NS       | 3500 U        | NS           | 3600 U |
| Phenanthrene                 | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Anthracene                   | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Carbazole                    | µg/Kg         | NS           | NS             | NS       | NS            | NS       | NS            | NS           | NS     |
| Di-n-butylphthalate          | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Fluoranthene                 | µg/Kg         | NS           | 100 J          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Pyrene                       | µg/Kg         | NS           | 120 J          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Butylbenzylphthalate         | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| 3,3'-Dichlorobenzidine       | µg/Kg         | NS           | 780 U          | NS       | 1400 U        | NS       | 1500 U        | NS           | 1500 U |
| Benzo(a)anthracene           | µg/Kg         | NS           | 160 J          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Chrysene                     | µg/Kg         | NS           | 160 J          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| bis(2-Ethylhexyl)phthalate   | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Di-n-octylphthalate          | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Benzo(b)fluoranthene         | µg/Kg         | NS           | 140 J          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Benzo(k)fluoranthene         | µg/Kg         | NS           | 210 J          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Benzo(a)pyrene               | µg/Kg         | NS           | 190 J          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Indeno(1,2,3-cd)pyrene       | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Dibenz(a,h)anthracene        | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |
| Benzo(g,h,i)perylene         | µg/Kg         | NS           | 780 U          | NS       | 720 U         | NS       | 730 U         | NS           | 750 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-29      | SOIL B-29     | SOIL B-29       | SOIL B-29 | SOIL B-29      | SOIL B-29 | SOIL B-29      | SOIL B-29     | SOIL B-29     |
|------------------------|----------------|---------------|-----------------|-----------|----------------|-----------|----------------|---------------|---------------|
| DEPTH                  | 0-2            | 0-2           | 0-2             | 0-2       | 0-2            | 2-4       | 4-6            | 4-6           | 4-6           |
| DATE                   | 12/04/91       | 12/04/91      | 12/04/91        | 12/04/91  | 12/04/91       | 12/04/91  | 12/04/91       | 12/04/91      | 12/04/91      |
| ES ID                  | S1204-91RE (4) | S1204-91A (1) | S1204-91ARE (1) | S1204-92  | S1204-92RE (4) | S1204-93  | S1204-93RE (4) | S1204-93A (1) | S1204-93A (1) |
| LAB ID                 | 150242         | 150243        | 150243          | 150244    | 150244         | 150245    | 150245         | 150245        | 150246        |
| COMPOUND               | UNITS          | UNITS         | UNITS           | UNITS     | UNITS          | UNITS     | UNITS          | UNITS         | UNITS         |
| <b>VOCs</b>            |                |               |                 |           |                |           |                |               |               |
| <b>PESTICIDES/PCBs</b> |                |               |                 |           |                |           |                |               |               |
| alpha-BHC              | µg/Kg          | 19 U J        | 19 U            | 19 U J    | 18 U           | 18 U J    | 18 U           | 18 U J        | 18 U          |
| beta-BHC               | µg/Kg          | 19 U J        | 19 U            | 19 U J    | 18 U           | 18 U J    | 18 U           | 18 U J        | 18 U          |
| delta-BHC              | µg/Kg          | 19 U J        | 19 U            | 19 U J    | 18 U           | 18 U J    | 18 U           | 18 U J        | 18 U          |
| gamma-BHC (Lindane)    | µg/Kg          | 19 U J        | 19 U            | 19 U J    | 18 U           | 18 U J    | 18 U           | 18 U J        | 18 U          |
| Heptachlor             | µg/Kg          | 19 U J        | 19 U            | 19 U J    | 18 U           | 18 U J    | 18 U           | 18 U J        | 18 U          |
| Aldrin                 | µg/Kg          | 19 U J        | 19 U            | 19 U J    | 18 U           | 18 U J    | 18 U           | 18 U J        | 18 U          |
| Heptachlor epoxide     | µg/Kg          | 19 U J        | 19 U            | 19 U J    | 18 U           | 18 U J    | 18 U           | 18 U J        | 18 U          |
| Endosulfan I           | µg/Kg          | 19 U J        | 19 U            | 19 U J    | 18 U           | 18 U J    | 18 U           | 18 U J        | 18 U          |
| Dieldrin               | µg/Kg          | 39 U J        | 38 U            | 38 U J    | 35 U           | 36 U J    | 35 U           | 36 U J        | 36 U          |
| 4,4'-DDE               | µg/Kg          | 39 U J        | 38 U            | 38 U J    | 35 U           | 36 U J    | 35 U           | 36 U J        | 36 U          |
| Endrin                 | µg/Kg          | 39 U J        | 38 U            | 38 U J    | 35 U           | 36 U J    | 35 U           | 36 U J        | 36 U          |
| Endosulfan II          | µg/Kg          | 39 U J        | 38 U            | 38 U J    | 35 U           | 36 U J    | 35 U           | 36 U J        | 36 U          |
| 4,4'-DDD               | µg/Kg          | 39 U J        | 38 U            | 38 U J    | 35 U           | 36 U J    | 35 U           | 36 U J        | 36 U          |
| Endosulfan sulfate     | µg/Kg          | 39 U J        | 38 U            | 38 U J    | 35 U           | 36 U J    | 35 U           | 36 U J        | 36 U          |
| 4,4'-DDT               | µg/Kg          | 39 U J        | 38 U            | 38 U J    | 35 U           | 36 U J    | 35 U           | 36 U J        | 36 U          |
| Methoxychlor           | µg/Kg          | 190 U J       | 190 U           | 190 U J   | 180 U          | 180 U J   | 180 U          | 180 U J       | 180 U         |
| Endrin ketone          | µg/Kg          | 39 U J        | 38 U            | 38 U J    | 35 U           | 36 U J    | 35 U           | 36 U J        | 36 U          |
| Endrin aldehyde        | NS             | NS            | NS              | NS        | NS             | NS        | NS             | NS            | NS            |
| alpha-Chlordane        | µg/Kg          | 190 U J       | 190 U           | 190 U J   | 180 U          | 180 U J   | 180 U          | 180 U J       | 180 U         |
| gamma-Chlordane        | µg/Kg          | 190 U J       | 190 U           | 190 U J   | 180 U          | 180 U J   | 180 U          | 180 U J       | 180 U         |
| Toxaphene              | µg/Kg          | 390 U J       | 380 U           | 380 U J   | 350 U          | 360 U J   | 350 U          | 360 U J       | 360 U         |
| Aroclor-1016           | µg/Kg          | 190 U J       | 190 U           | 190 U J   | 180 U          | 180 U J   | 180 U          | 180 U J       | 180 U         |
| Aroclor-1221           | µg/Kg          | 190 U J       | 190 U           | 190 U J   | 180 U          | 180 U J   | 180 U          | 180 U J       | 180 U         |
| Aroclor-1232           | µg/Kg          | 190 U J       | 190 U           | 190 U J   | 180 U          | 180 U J   | 180 U          | 180 U J       | 180 U         |
| Aroclor-1242           | µg/Kg          | 190 U J       | 190 U           | 190 U J   | 180 U          | 180 U J   | 180 U          | 180 U J       | 180 U         |
| Aroclor-1248           | µg/Kg          | 190 U J       | 190 U           | 190 U J   | 180 U          | 180 U J   | 180 U          | 180 U J       | 180 U         |
| Aroclor-1254           | µg/Kg          | 390 U J       | 380 U           | 380 U J   | 350 U          | 360 U J   | 350 U          | 360 U J       | 360 U         |
| Aroclor-1280           | µg/Kg          | 390 U J       | 380 U           | 380 U J   | 350 U          | 360 U J   | 350 U          | 360 U J       | 360 U         |
| <b>HERBICIDES</b>      |                |               |                 |           |                |           |                |               |               |
| 2,4-D                  | µg/Kg          | NS            | 60 U            | NS        | 57 U           | NS        | 57 U           | NS            | 56 U          |
| 2,4-DB                 | µg/Kg          | NS            | 60 U            | NS        | 57 U           | NS        | 410 J          | NS            | 56 U J        |
| 2,4,5-T                | µg/Kg          | NS            | 8 U             | NS        | 5.7 U          | NS        | 5.7 U          | NS            | 5.6 U         |
| 2,4,5-TP (Silvex)      | µg/Kg          | NS            | 8 U             | NS        | 5.7 U          | NS        | 5.7 U          | NS            | 5.6 U         |
| Delapone               | µg/Kg          | NS            | 140 U           | NS        | 140 U          | NS        | 140 U          | NS            | 130 U         |
| Dicamba                | µg/Kg          | NS            | 8 U             | NS        | 5.7 U          | NS        | 5.7 U          | NS            | 5.6 U         |
| Dichloroprop           | µg/Kg          | NS            | 60 U            | NS        | 57 U           | NS        | 57 U           | NS            | 56 U          |
| Dinoseb                | µg/Kg          | NS            | 30 U            | NS        | 29 U           | NS        | 28 U           | NS            | 28 U          |
| MCPA                   | µg/Kg          | NS            | 6000 U          | NS        | 5700 U         | NS        | 5700 U         | NS            | 5600 U        |
| MCPP                   | µg/Kg          | NS            | 6000 U          | NS        | 5700 U         | NS        | 5700 U         | NS            | 5600 U        |
| <b>METALS</b>          |                |               |                 |           |                |           |                |               |               |
| Aluminum               | mg/kg          | NS            | 16300           | NS        | 18100          | NS        | 18500          | NS            | 14700         |
| Antimony               | mg/kg          | NS            | 10.4 U J        | NS        | 6.6 U J        | NS        | 10.4 U J       | NS            | 10.3 U J      |
| Arsenic                | mg/kg          | NS            | 4.7             | NS        | 4.2            | NS        | 4.4            | NS            | 4.2           |
| Barium                 | mg/kg          | NS            | 84.1            | NS        | 71.8           | NS        | 49.9           | NS            | 34.8 J        |
| Beryllium              | mg/kg          | NS            | 1 R             | NS        | 0.9 R          | NS        | 0.99 R         | NS            | 0.81 R        |
| Cadmium                | mg/kg          | NS            | 3.4             | NS        | 3.7            | NS        | 4              | NS            | 3             |
| Calcium                | mg/kg          | NS            | 5040 J          | NS        | 80500 J        | NS        | 12100 J        | NS            | 15900 J       |
| Chromium               | mg/kg          | NS            | 23.2            | NS        | 25.7           | NS        | 27.5           | NS            | 22            |
| Cobalt                 | mg/kg          | NS            | 10.8            | NS        | 15.2           | NS        | 15.2           | NS            | 10.1          |
| Copper                 | mg/kg          | NS            | 24.5            | NS        | 27.3           | NS        | 21.5           | NS            | 18            |
| Iron                   | mg/kg          | NS            | 26100           | NS        | 35300          | NS        | 36800          | NS            | 27500         |
| Lead                   | mg/kg          | NS            | 9.4 J           | NS        | 6.8 J          | NS        | 4.1 J          | NS            | 4.3 J         |
| Magnesium              | mg/kg          | NS            | 5230            | NS        | 9890           | NS        | 7460           | NS            | 8030          |
| Manganese              | mg/kg          | NS            | 551             | NS        | 887            | NS        | 492 J          | NS            | 364 J         |
| Mercury                | mg/kg          | NS            | 0.05 J          | NS        | 0.03 U         | NS        | 0.05 J         | NS            | 0.05 U        |
| Nickel                 | mg/kg          | NS            | 31.1            | NS        | 41.8           | NS        | 41.2           | NS            | 32.4          |
| Potassium              | mg/kg          | NS            | 2230            | NS        | 2180           | NS        | 1690           | NS            | 1350          |
| Selenium               | mg/kg          | NS            | 0.13 U J        | NS        | 0.75 U J       | NS        | 0.15 U J       | NS            | 0.22 U J      |
| Silver                 | mg/kg          | NS            | 0.66 U          | NS        | 0.42 U         | NS        | 0.89 J         | NS            | 0.66 U        |
| Sodium                 | mg/kg          | NS            | 64.9 J          | NS        | 131 J          | NS        | 80.8 J         | NS            | 78.8 J        |
| Thallium               | mg/kg          | NS            | 0.38 U          | NS        | 0.42 U         | NS        | 0.41 U         | NS            | 0.63 U        |
| Vanadium               | mg/kg          | NS            | 27.8            | NS        | 25.3           | NS        | 23.5           | NS            | 18.9 R        |
| Zinc                   | mg/kg          | NS            | 77.2            | NS        | 101            | NS        | 100            | NS            | 88.5          |
| Cyanide                | mg/kg          | NS            | 0.71 U          | NS        | 0.65 U         | NS        | 0.59 U         | NS            | 0.6 U         |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   | SOIL   |
|----------------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                            |                 | B-29   | B-30   | B-30   | B-30   | B-30   | B-30   | B-30   | B-30   |
| UNITS                      | DEPTH           | DATE   | DATE   | DATE   | DATE   | DATE   | DATE   | DATE   | DATE   |
|                            | ES ID           | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  | ES ID  |
|                            | LAB ID          | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID |
| <b>VOCs</b>                |                 |        |        |        |        |        |        |        |        |
| Chloromethane              | µg/Kg           | NS     | 12 U   | 12 U   | NS     | 57 U J | 57 U J | NS     | 1400 U |
| Bromomethane               | µg/Kg           | NS     | 12 U   | 12 U   | NS     | 57 U J | 57 U J | NS     | 1400 U |
| Vinyl Chloride             | µg/Kg           | NS     | 12 U   | 12 U   | NS     | 57 U J | 57 U J | NS     | 1400 U |
| Chloroethane               | µg/Kg           | NS     | 12 U   | 12 U   | NS     | 57 U J | 57 U J | NS     | 1400 U |
| Methylene Chloride         | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Acetone                    | µg/Kg           | NS     | 12 U   | 12 U   | NS     | 57 U J | 57 U J | NS     | 1400 U |
| Carbon Disulfide           | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| 1,1-Dichloroethene         | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| 1,1-Dichloroethane         | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| 1,2-Dichloroethene (total) | µg/Kg           | NS     | 45     | 31     | NS     | 1400 J | 1700 J | NS     | 18000  |
| Chloroform                 | µg/Kg           | NS     | 6 U    | 4 J    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| 1,2-Dichloroethane         | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| 2-Butanone                 | µg/Kg           | NS     | 12 U   | 12 U   | NS     | 57 U J | 57 U J | NS     | 1400 U |
| 1,1,1-Trichloroethane      | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Carbon Tetrachloride       | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Vinyl Acetate              | µg/Kg           | NS     | 12 U   | 12 U   | NS     | 57 U J | 57 U J | NS     | 1400 U |
| Bromodichloromethane       | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| 1,2-Dichloropropane        | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| cis-1,3-Dichloropropene    | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Trichloroethene            | µg/Kg           | NS     | 5 J    | 5 J    | NS     | 110 J  | 91 J   | NS     | 450 J  |
| Dibromochloromethane       | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| 1,1,2-Trichloroethane      | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Benzene                    | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| trans-1,3-Dichloropropene  | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Bromoform                  | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| 4-Methyl-2-Pentanone       | µg/Kg           | NS     | 12 U   | 12 U   | NS     | 57 U J | 57 U J | NS     | 1400 U |
| 2-Hexanone                 | µg/Kg           | NS     | 12 U   | 12 U   | NS     | 57 U J | 57 U J | NS     | 1400 U |
| Tetrachloroethane          | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Toluene                    | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 410 J  |
| Chlorobenzene              | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Ethylbenzene               | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Styrene                    | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 29 U J | 29 U J | NS     | 720 U  |
| Xylene (total)             | µg/Kg           | NS     | 6 U    | 6 U    | NS     | 41 J   | 28 J   | NS     | 970    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX   | SOIL             | SOIL     | SOIL         | SOIL          | SOIL          | SOIL     | SOIL          | SOIL     |
|------------------------------|----------|------------------|----------|--------------|---------------|---------------|----------|---------------|----------|
|                              | LOCATION | B-29             | B-30     | B-30         | B-30          | B-30          | B-30     | B-30          | B-30     |
| UNITS                        | DEPTH    | DATE             | DATE     | DATE         | DATE          | DATE          | DATE     | DATE          | DATE     |
|                              | ES ID    | S1204-93ARE(1,4) | S1204-94 | S1204-94A(1) | S1204-94RE(4) | S1204-95RE(4) | S1204-95 | S1204-95RE(4) | S1204-96 |
|                              | LAB ID   | 150246           | 150247   | 150248       | 150247        | 150249        | 150249   | 150249        | 150250   |
| VOCs                         |          |                  |          |              |               |               |          |               |          |
| SEMIVOLATILES                |          |                  |          |              |               |               |          |               |          |
| Phenol                       | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U    | 720 U         | 1500 U J |
| bis(2-Chloroethyl) ether     | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 2-Chlorophenol               | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U    | 720 U         | 1500 U J |
| 1,3-Dichlorobenzene          | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 1,4-Dichlorobenzene          | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Benzyl Alcohol               | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 1,2-Dichlorobenzene          | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 2-Methylphenol               | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U    | 720 U         | 1500 U J |
| bis(2-Chloroisopropyl) ether | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 4-Methylphenol               | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U    | 720 U         | 1500 U J |
| N-Nitroso-di-n-propylamine   | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Hexachloroethane             | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Nitrobenzene                 | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Isophorone                   | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 2-Nitrophenol                | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U    | 720 U         | 1500 U J |
| 2,4-Dimethylphenol           | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U    | 720 U         | 1500 U J |
| Benzic acid                  | µg/Kg    | NS               | 3900 U R | 120 J        | 3900 U J      | NS            | 3500 U J | 720 U J       | 7100 U J |
| bis(2-Chloroethoxy) methane  | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 2,4-Dichlorophenol           | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U    | 720 U         | 1500 U J |
| 1,2,4-Trichlorobenzene       | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Naphthalene                  | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 240 J    |
| 4-Chloroaniline              | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Hexachlorobutadiene          | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 4-Chloro-3-methylphenol      | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U    | 720 U         | 1500 U J |
| 2-Methylnaphthalene          | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 250 J    |
| Hexachlorocyclopentadiene    | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 2,4,6-Trichlorophenol        | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U    | 720 U         | 1500 U J |
| 2,4,5-Trichlorophenol        | µg/Kg    | NS               | 3900 U R | 3700 U       | 3900 U J      | NS            | 3500 U   | 3500 U        | 7100 U J |
| 2-Chloronaphthalene          | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 2-Nitroaniline               | µg/Kg    | NS               | 3900 U R | 3700 U       | 3900 U J      | NS            | 3500 U J | 3500 U J      | 7100 U J |
| Dimethylphthalate            | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Acenaphthylene               | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 2,6-Dinitrotoluene           | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 3-Nitroaniline               | µg/Kg    | NS               | 3900 U R | 3700 U       | 3900 U J      | NS            | 3500 U J | 3500 U J      | 7100 U J |
| Acenaphthene                 | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 2,4-Dinitrophenol            | µg/Kg    | NS               | 3900 U R | 3700 U       | 3900 U J      | NS            | 3500 U   | 3500 U        | 7100 U J |
| 4-Nitrophenol                | µg/Kg    | NS               | 3900 U R | 81 J         | 3900 U J      | NS            | 3500 U   | 3500 U        | 7100 U J |
| Dibenzofuran                 | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 2,4-Dinitrotoluene           | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Diethylphthalate             | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 4-Chlorophenyl-phenyl ether  | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Fluorene                     | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 4-Nitroaniline               | µg/Kg    | NS               | 3900 U R | 3700 U       | 3900 U J      | NS            | 3500 U J | 3500 U J      | 7100 U J |
| 4,6-Dinitro-2-methylphenol   | µg/Kg    | NS               | 3900 U R | 3700 U       | 3900 U J      | NS            | 3500 U   | 3500 U        | 7100 U J |
| N-Nitrosodiphenylamine (1)   | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 4-Bromophenyl-phenyl ether   | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Hexachlorobenzene            | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Pentachlorophenol            | µg/Kg    | NS               | 3900 U R | 3700 U       | 3900 U J      | NS            | 3500 U   | 3500 U        | 7100 U J |
| Phenanthrene                 | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Anthracene                   | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Carbazole                    | µg/Kg    | NS               | NS       | NS           | NS            | NS            | NS       | NS            | NS       |
| Di-n-butylphthalate          | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Fluoranthene                 | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Pyrene                       | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Butylbenzylphthalate         | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| 3,3'-Dichlorobenzidine       | µg/Kg    | NS               | 1600 U R | 760 U        | 1600 U J      | NS            | 1400 U J | 1400 U J      | 2900 U J |
| Benzo(a)anthracene           | µg/Kg    | NS               | 800 U R  | 85 J         | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Chrysene                     | µg/Kg    | NS               | 800 U R  | 79 J         | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| bis(2-Ethylhexyl)phthalate   | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Di-n-octylphthalate          | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Benzo(b)fluoranthene         | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Benzo(k)fluoranthene         | µg/Kg    | NS               | 800 U R  | 760 U        | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Benzo(a)pyrene               | µg/Kg    | NS               | 800 U R  | 70 J         | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Indeno(1,2,3-cd)pyrene       | µg/Kg    | NS               | 800 U R  | 81 J         | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Dibenz(a,h)anthracene        | µg/Kg    | NS               | 800 U R  | 81 J         | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |
| Benzo(g,h,i)perylene         | µg/Kg    | NS               | 800 U R  | 84 J         | 800 U J       | NS            | 720 U J  | 720 U J       | 1500 U J |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-29        | SOIL B-30 | SOIL B-30    | SOIL B-30     | SOIL B-30     | SOIL B-30 | SOIL B-30     | SOIL B-30     | SOIL B-30 |
|------------------------|------------------|-----------|--------------|---------------|---------------|-----------|---------------|---------------|-----------|
| DEPTH                  | 4-6              | 0-2       | 0-2          | 0-2           | 0-2           | 2-4       | 2-4           | 2-4           | 4-6       |
| DATE                   | 12/04/91         | 12/04/91  | 12/04/91     | 12/04/91      | 12/04/91      | 12/04/91  | 12/04/91      | 12/04/91      | 12/04/91  |
| ES ID                  | S1204-93ARE(1,4) | S1204-94  | S1204-94A(1) | S1204-94RE(4) | S1204-95RE(4) | S1204-95  | S1204-95RE(4) | S1204-95RE(4) | S1204-96  |
| LAB ID                 | 150246           | 150247    | 150248       | 150247        | 150249        | 150249    | 150249        | 150249        | 150250    |
| COMPOUND               | UNITS            | UNITS     | UNITS        | UNITS         | UNITS         | UNITS     | UNITS         | UNITS         | UNITS     |
| <b>VOCs</b>            |                  |           |              |               |               |           |               |               |           |
| <b>PESTICIDES/PCBs</b> |                  |           |              |               |               |           |               |               |           |
| alpha-BHC              | µg/Kg            | 18 U J    | 19 U R       | 18 U          | 19 U J        | 19 U      | 17 U          | 18 U J        | 18 U      |
| beta-BHC               | µg/Kg            | 18 U J    | 19 U R       | 18 U          | 19 U J        | 19 U      | 17 U          | 18 U J        | 18 U      |
| delta-BHC              | µg/Kg            | 18 U J    | 19 U R       | 18 U          | 19 U J        | 19 U      | 17 U          | 18 U J        | 18 U      |
| gamma-BHC (Lindane)    | µg/Kg            | 18 U J    | 19 U R       | 18 U          | 19 U J        | 19 U      | 17 U          | 18 U J        | 18 U      |
| Heptachlor             | µg/Kg            | 18 U J    | 19 U R       | 18 U          | 19 U J        | 19 U      | 17 U          | 18 U J        | 18 U      |
| Aldrin                 | µg/Kg            | 18 U J    | 19 U R       | 18 U          | 19 U J        | 19 U      | 17 U          | 18 U J        | 18 U      |
| Heptachlor epoxide     | µg/Kg            | 18 U J    | 19 U R       | 18 U          | 19 U J        | 19 U      | 17 U          | 18 U J        | 18 U      |
| Endosulfan I           | µg/Kg            | 18 U J    | 19 U R       | 18 U          | 19 U J        | 19 U      | 17 U          | 18 U J        | 18 U      |
| Dieldrin               | µg/Kg            | 35 U J    | 39 U R       | 37 U          | 38 U J        | 38 U      | 35 U          | 35 U J        | 36 U      |
| 4,4'-DDE               | µg/Kg            | 35 U J    | 39 U R       | 37 U          | 38 U J        | 38 U      | 35 U          | 35 U J        | 36 U      |
| Endrin                 | µg/Kg            | 35 U J    | 39 U R       | 37 U          | 38 U J        | 38 U      | 35 U          | 35 U J        | 36 U      |
| Endosulfan II          | µg/Kg            | 35 U J    | 39 U R       | 37 U          | 38 U J        | 38 U      | 35 U          | 35 U J        | 36 U      |
| 4,4'-DDD               | µg/Kg            | 35 U J    | 39 U R       | 37 U          | 38 U J        | 38 U      | 35 U          | 35 U J        | 36 U      |
| Endosulfan sulfate     | µg/Kg            | 35 U J    | 39 U R       | 37 U          | 38 U J        | 38 U      | 35 U          | 35 U J        | 36 U      |
| 4,4'-DDT               | µg/Kg            | 35 U J    | 39 U R       | 37 U          | 38 U J        | 36 U      | 35 U          | 35 U J        | 36 U      |
| Methoxychlor           | µg/Kg            | 180 U J   | 190 U R      | 180 U         | 190 U J       | 190 U     | 170 U         | 180 U J       | 180 U     |
| Endrin ketone          | µg/Kg            | 35 U J    | 39 U R       | 37 U          | 38 U J        | 38 U      | 35 U          | 35 U J        | 36 U      |
| Endrin aldehyde        | NS               | NS        | NS           | NS            | NS            | NS        | NS            | NS            | NS        |
| alpha-Chlordane        | µg/Kg            | 180 U J   | 190 U R      | 180 U         | 190 U J       | 190 U     | 170 U         | 180 U J       | 180 U     |
| gamma-Chlordane        | µg/Kg            | 180 U J   | 190 U R      | 180 U         | 190 U J       | 190 U     | 170 U         | 180 U J       | 180 U     |
| Toxaphene              | µg/Kg            | 350 U J   | 390 U R      | 370 U         | 380 U J       | 380 U     | 350 U         | 350 U J       | 360 U     |
| Aroclor-1016           | µg/Kg            | 180 U J   | 190 U R      | 180 U         | 190 U J       | 190 U     | 170 U         | 180 U J       | 180 U     |
| Aroclor-1221           | µg/Kg            | 180 U J   | 190 U R      | 180 U         | 190 U J       | 190 U     | 170 U         | 180 U J       | 180 U     |
| Aroclor-1232           | µg/Kg            | 180 U J   | 190 U R      | 180 U         | 190 U J       | 190 U     | 170 U         | 180 U J       | 180 U     |
| Aroclor-1242           | µg/Kg            | 180 U J   | 190 U R      | 180 U         | 190 U J       | 190 U     | 170 R         | 180 U J       | 200 R     |
| Aroclor-1248           | µg/Kg            | 180 U J   | 190 U R      | 180 U         | 190 U J       | 190 U     | 170 U         | 180 U J       | 180 U     |
| Aroclor-1254           | µg/Kg            | 350 U J   | 390 U R      | 370 U         | 380 U J       | 380 U     | 350 U         | 350 U J       | 360 U     |
| Aroclor-1260           | µg/Kg            | 350 U J   | 390 U R      | 370 U         | 380 U J       | 380 U     | 580           | 770 J         | 370       |
| <b>HERBICIDES</b>      |                  |           |              |               |               |           |               |               |           |
| 2,4-D                  | µg/Kg            | NS        | 61 U         | 60 U          | NS            | NS        | 56 U          | NS            | 56 U      |
| 2,4-DB                 | µg/Kg            | NS        | 61 U         | 60 U          | NS            | NS        | 56 U          | NS            | 56 U      |
| 2,4,5-T                | µg/Kg            | NS        | 6.1 U        | 6 U           | NS            | NS        | 5.6 U         | NS            | 5.6 U     |
| 2,4,5-TP (Silvex)      | µg/Kg            | NS        | 6.1 U        | 6 U           | NS            | NS        | 5.6 U         | NS            | 5.6 U     |
| Delapon                | µg/Kg            | NS        | 150 U        | 140 U         | NS            | NS        | 130 U         | NS            | 130 U     |
| Dicamba                | µg/Kg            | NS        | 6.1 U        | 6 U           | NS            | NS        | 5.6 U         | NS            | 5.6 U     |
| Dichloroprop           | µg/Kg            | NS        | 61 U         | 60 U          | NS            | NS        | 56 U          | NS            | 56 U      |
| Dinoseb                | µg/Kg            | NS        | 30 U         | 30 U          | NS            | NS        | 28 U          | NS            | 28 U      |
| MCPA                   | µg/Kg            | NS        | 6100 U       | 6000 U        | NS            | NS        | 5600 U        | NS            | 5600 U    |
| MCPP                   | µg/Kg            | NS        | 6100 U       | 6000 U        | NS            | NS        | 5600 U        | NS            | 5600 U    |
| <b>METALS</b>          |                  |           |              |               |               |           |               |               |           |
| Aluminum               | mg/kg            | NS        | 16200        | 14400         | NS            | NS        | 15700         | NS            | 13000     |
| Antimony               | mg/kg            | NS        | 7.3 U J      | 9.5 U J       | NS            | NS        | 7.6 U J       | NS            | 8.3 U J   |
| Arsenic                | mg/kg            | NS        | 5.1          | 4.8           | NS            | NS        | 5.5           | NS            | 3         |
| Barium                 | mg/kg            | NS        | 86.4         | 74.6          | NS            | NS        | 64.9          | NS            | 38.5      |
| Beryllium              | mg/kg            | NS        | 0.79 R       | 0.8 R         | NS            | NS        | 0.82 R        | NS            | 0.69 R    |
| Cadmium                | mg/kg            | NS        | 2.9          | 2.2           | NS            | NS        | 3             | NS            | 2.9       |
| Calcium                | mg/kg            | NS        | 16900 J      | 20200         | NS            | NS        | 44800 J       | NS            | 2460 J    |
| Chromium               | mg/kg            | NS        | 20           | 16.5          | NS            | NS        | 22.5          | NS            | 20.7      |
| Cobalt                 | mg/kg            | NS        | 8.9          | 7.8 J         | NS            | NS        | 12.5          | NS            | 10.4      |
| Copper                 | mg/kg            | NS        | 18.9         | 18.1          | NS            | NS        | 22.9          | NS            | 12        |
| Iron                   | mg/kg            | NS        | 24000        | 19700         | NS            | NS        | 27700         | NS            | 29800     |
| Lead                   | mg/kg            | NS        | 11.5 J       | 8.8 J         | NS            | NS        | 7 J           | NS            | 7.3 J     |
| Magnesium              | mg/kg            | NS        | 5190         | 10700         | NS            | NS        | 7660          | NS            | 5160      |
| Manganese              | mg/kg            | NS        | 735          | 597           | NS            | NS        | 627           | NS            | 347       |
| Mercury                | mg/kg            | NS        | 0.04 U       | 0.05 J        | NS            | NS        | 0.04 J        | NS            | 0.04 U    |
| Nickel                 | mg/kg            | NS        | 23.7         | 19.8          | NS            | NS        | 36.7          | NS            | 31        |
| Potassium              | mg/kg            | NS        | 2040         | 2120          | NS            | NS        | 1910          | NS            | 938       |
| Selenium               | mg/kg            | NS        | 0.17 U J     | 1.1 U J       | NS            | NS        | 0.98 U J      | NS            | 0.61 U J  |
| Silver                 | mg/kg            | NS        | 0.47 U       | 0.61 U        | NS            | NS        | 0.48 U        | NS            | 0.45 J    |
| Sodium                 | mg/kg            | NS        | 83.3 J       | 74.8 J        | NS            | NS        | 101 J         | NS            | 40 J      |
| Thallium               | mg/kg            | NS        | 0.47 U       | 0.6 U         | NS            | NS        | 0.55 U        | NS            | 0.34 U    |
| Vanadium               | mg/kg            | NS        | 25.2         | 24            | NS            | NS        | 21.5 R        | NS            | 16 R      |
| Zinc                   | mg/kg            | NS        | 68.5         | 69.5          | NS            | NS        | 98.5          | NS            | 74.4      |
| Cyanide                | mg/kg            | NS        | 0.69 U       | 0.68 U        | NS            | NS        | 0.61 U        | NS            | 0.65 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL         | SOIL           | SOIL          | SOIL             | SOIL     | SOIL         | SOIL          | SOIL             |  |
|----------------------------|----------|--------------|----------------|---------------|------------------|----------|--------------|---------------|------------------|--|
|                            | LOCATION | B-30         | B-30           | B-30          | B-30             | B-31     | B-31         | B-31          | B-31             |  |
|                            | DEPTH    | 4-6          | 4-6            | 4-6           | 4-6              | 0-2      | 0-2          | 0-2           | 0-2              |  |
|                            | DATE     | 12/04/91     | 12/04/91       | 12/04/91      | 12/04/91         | 12/05/91 | 12/05/91     | 12/05/91      | 12/05/91         |  |
|                            | ES ID    | S1204-96A(1) | S1204-96ADL(5) | S1204-96RE(4) | S1204-96ARE(1,4) | S1205-97 | S1205-97A(1) | S1205-97RE(4) | S1205-97ARE(1,4) |  |
|                            | LAB ID   | 150251       | 150251         | 150250        | 150251           | 150252   | 150253       | 150252        | 150253           |  |
|                            | UNITS    |              |                |               |                  |          |              |               |                  |  |
| VOCs                       |          |              |                |               |                  |          |              |               |                  |  |
| Chloromethane              | µg/Kg    | 1400 U       | 2600 U R       | NS            | NS               | 12 U     | 12 U         | NS            | NS               |  |
| Bromomethane               | µg/Kg    | 1400 U       | 2800 U R       | NS            | NS               | 12 U     | 12 U         | NS            | NS               |  |
| Vinyl Chloride             | µg/Kg    | 1400 U       | 2800 U R       | NS            | NS               | 12 U     | 12 U         | NS            | NS               |  |
| Chloroethane               | µg/Kg    | 1400 U       | 2800 U R       | NS            | NS               | 12 U     | 12 U         | NS            | NS               |  |
| Methylene Chloride         | µg/Kg    | 710 U        | 1500 R         | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Acetone                    | µg/Kg    | 680 J        | 4100 R         | NS            | NS               | 12 U     | 12 U         | NS            | NS               |  |
| Carbon Disulfide           | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| 1,1-Dichloroethane         | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| 1,1-Dichloroethane         | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| 1,2-Dichloroethane (total) | µg/Kg    | 16000        | 4100 R         | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Chloroform                 | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| 1,2-Dichloroethane         | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| 2-Butanone                 | µg/Kg    | 1400 U       | 2800 U R       | NS            | NS               | 12 U     | 12 U         | NS            | NS               |  |
| 1,1,1-Trichloroethane      | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Carbon Tetrachloride       | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Vinyl Acetate              | µg/Kg    | 1400 U       | 2800 U R       | NS            | NS               | 12 U     | 12 U         | NS            | NS               |  |
| Bromodichloromethane       | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| 1,2-Dichloropropane        | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| cis-1,3-Dichloropropene    | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Trichloroethene            | µg/Kg    | 390 J        | 1400 U R       | NS            | NS               | 23 J     | 110 J        | NS            | NS               |  |
| Dibromochloromethane       | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| 1,1,2-Trichloroethane      | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Benzene                    | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| trans-1,3-Dichloropropene  | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Bromoform                  | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| 4-Methyl-2-Pentanone       | µg/Kg    | 1400 U       | 2800 U R       | NS            | NS               | 12 U     | 12 U         | NS            | NS               |  |
| 2-Hexanone                 | µg/Kg    | 1400 U       | 2800 U R       | NS            | NS               | 12 U     | 12 U         | NS            | NS               |  |
| Tetrachloroethene          | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Toluene                    | µg/Kg    | 640 J        | 420 R          | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Chlorobenzene              | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Ethylbenzene               | µg/Kg    | 660 J        | 520 R          | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Styrene                    | µg/Kg    | 710 U        | 1400 U R       | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |
| Xylene (total)             | µg/Kg    | 2100         | 970 R          | NS            | NS               | 6 U      | 6 U          | NS            | NS               |  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-30    | SOIL B-30      | SOIL B-30     | SOIL B-30        | SOIL B-31 | SOIL B-31    | SOIL B-31     | SOIL B-31        | SOIL B-31        |
|------------------------------|--------------|----------------|---------------|------------------|-----------|--------------|---------------|------------------|------------------|
| DEPTH                        | 4-6          | 4-6            | 4-6           | 4-6              | 0-2       | 0-2          | 0-2           | 0-2              | 0-2              |
| DATE                         | 12/04/91     | 12/04/91       | 12/04/91      | 12/04/91         | 12/05/91  | 12/05/91     | 12/05/91      | 12/05/91         | 12/05/91         |
| ES ID                        | S1204-96A(1) | S1204-96ADL(5) | S1204-96RE(4) | S1204-96ARE(1,4) | S1205-97  | S1205-97A(1) | S1205-97RE(4) | S1205-97ARE(1,4) | S1205-97ARE(1,4) |
| LAB ID                       | 150251       | 150251         | 150250        | 150251           | 150252    | 150253       | 150252        | 150253           | 150253           |
| COMPOUND VOCs                | UNITS        |                |               |                  |           |              |               |                  |                  |
| <b>SEMIVOLATILES</b>         |              |                |               |                  |           |              |               |                  |                  |
| Phenol                       | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| bis(2-Chloroethyl) ether     | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2-Chlorophenol               | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 1,3-Dichlorobenzene          | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 1,4-Dichlorobenzene          | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Benzyl Alcohol               | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 1,2-Dichlorobenzene          | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2-Methylphenol               | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| bis(2-Chloroisopropyl) ether | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 4-Methylphenol               | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| N-Nitrosod-n-propylamine     | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Hexachloroethane             | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Nitrobenzene                 | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Isophorone                   | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2-Nitrophenol                | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2,4-Dimethylphenol           | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Benzic acid                  | µg/Kg        | 7000 U J       | NS            | NS               | NS        | 3900 U       | 94 J          | NS               | NS               |
| bis(2-Chloroethoxy) methane  | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2,4-Dichlorophenol           | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 1,2,4-Trichlorobenzene       | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Naphthalene                  | µg/Kg        | 240 J          | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 4-Chloroaniline              | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Hexachlorobutadiene          | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 4-Chloro-3-methylphenol      | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2-Methylnaphthalene          | µg/Kg        | 220 J          | NS            | NS               | NS        | 78 J         | 780 U         | NS               | NS               |
| Hexachlorocyclopentadiene    | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2,4,6-Trichlorophenol        | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2,4,5-Trichlorophenol        | µg/Kg        | 7000 U J       | NS            | NS               | NS        | 3900 U       | 3800 U        | NS               | NS               |
| 2-Chloronaphthalene          | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2-Nitroaniline               | µg/Kg        | 7000 U J       | NS            | NS               | NS        | 3900 U       | 3800 U        | NS               | NS               |
| Dimethylphthalate            | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Acenaphthylene               | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2,6-Dinitrotoluene           | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 3-Nitroaniline               | µg/Kg        | 7000 U J       | NS            | NS               | NS        | 3900 U       | 3800 U        | NS               | NS               |
| Acenaphthene                 | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2,4-Dinitrophenol            | µg/Kg        | 7000 U J       | NS            | NS               | NS        | 3900 U       | 3800 U        | NS               | NS               |
| 4-Nitrophenol                | µg/Kg        | 7000 U J       | NS            | NS               | NS        | 3900 U       | 3800 U        | NS               | NS               |
| Dibenzofuran                 | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 2,4-Dinitrotoluene           | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Diethylphthalate             | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 4-Chlorophenyl-phenylether   | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Fluorene                     | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 4-Nitroaniline               | µg/Kg        | 7000 U J       | NS            | NS               | NS        | 3900 U       | 3800 U        | NS               | NS               |
| 4,6-Dinitro-2-methylphenol   | µg/Kg        | 7000 U J       | NS            | NS               | NS        | 3900 U       | 3800 U        | NS               | NS               |
| N-Nitrosodiphenylamine (1)   | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| 4-Bromophenyl-phenylether    | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Hexachlorobenzene            | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Pentachlorophenol            | µg/Kg        | 7000 U J       | NS            | NS               | NS        | 3900 U       | 3800 U        | NS               | NS               |
| Phenanthrene                 | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 180 J        | 120 J         | NS               | NS               |
| Anthracene                   | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 780 U         | NS               | NS               |
| Carbazole                    | µg/Kg        | NS             | NS            | NS               | NS        | NS           | NS            | NS               | NS               |
| Di-n-butylphthalate          | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 150 J         | NS               | NS               |
| Fluoranthene                 | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 250 J        | 250 J         | NS               | NS               |
| Pyrene                       | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 190 J        | 250 J         | NS               | NS               |
| Butylbenzylphthalate         | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 140 J         | NS               | NS               |
| 3,3'-Dichlorobenzidine       | µg/Kg        | 2900 U J       | NS            | NS               | NS        | 1600 U       | 1600 U        | NS               | NS               |
| Benzo(a)anthracene           | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 140 J        | 260 J         | NS               | NS               |
| Chrysene                     | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 150 J        | 210 J         | NS               | NS               |
| bis(2-Ethylhexyl)phthalate   | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 83 J         | 230 J         | NS               | NS               |
| Di-n-octylphthalate          | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 150 J         | NS               | NS               |
| Benzo(b)fluoranthene         | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 130 J        | 240 J         | NS               | NS               |
| Benzo(k)fluoranthene         | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 99 J         | 160 J         | NS               | NS               |
| Benzo(a)pyrene               | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 110 J        | 200 J         | NS               | NS               |
| Indeno(1,2,3-cd)pyrene       | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 82 J         | 200 J         | NS               | NS               |
| Dibenz(a,h)anthracene        | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 800 U        | 170 J         | NS               | NS               |
| Benzo(g,h,i)perylene         | µg/Kg        | 1400 U J       | NS            | NS               | NS        | 83 J         | 220 J         | NS               | NS               |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-30    | SOIL B-30      | SOIL B-30     | SOIL B-30        | SOIL B-31 | SOIL B-31    | SOIL B-31     | SOIL B-31        |
|------------------------|--------------|----------------|---------------|------------------|-----------|--------------|---------------|------------------|
| DEPTH                  | 4-6          | 4-6            | 4-6           | 4-6              | 0-2       | 0-2          | 0-2           | 0-2              |
| DATE                   | 12/04/91     | 12/04/91       | 12/04/91      | 12/04/91         | 12/05/91  | 12/05/91     | 12/05/91      | 12/05/91         |
| ES ID                  | S1204-96A(1) | S1204-96ADL(5) | S1204-96RE(4) | S1204-96ARE(1,4) | S1205-97  | S1205-97A(1) | S1205-97RE(4) | S1205-97ARE(1,4) |
| LAB ID                 | 150251       | 150251         | 150250        | 150251           | 150252    | 150253       | 150252        | 150253           |
| COMPOUND UNITS         |              |                |               |                  |           |              |               |                  |
| <b>VOCs</b>            |              |                |               |                  |           |              |               |                  |
| <b>PESTICIDES/PCBs</b> |              |                |               |                  |           |              |               |                  |
| alpha-BHC              | µg/Kg        | 17 U           | NS            | 17 U J           | 17 U J    | 20 U         | 19 U          | 19 U J           |
| beta-BHC               | µg/Kg        | 17 U           | NS            | 17 U J           | 17 U J    | 20 U         | 19 U          | 19 U J           |
| delta-BHC              | µg/Kg        | 17 U           | NS            | 17 U J           | 17 U J    | 20 U         | 19 U          | 19 U J           |
| gamma-BHC (Lindane)    | µg/Kg        | 17 U           | NS            | 17 U J           | 17 U J    | 20 U         | 19 U          | 19 U J           |
| Heptachlor             | µg/Kg        | 17 U           | NS            | 17 U J           | 17 U J    | 20 U         | 19 U          | 19 U J           |
| Aldrin                 | µg/Kg        | 17 U           | NS            | 17 U J           | 17 U J    | 20 U         | 19 U          | 19 U J           |
| Heptachlor epoxide     | µg/Kg        | 17 U           | NS            | 17 U J           | 17 U J    | 20 U         | 19 U          | 19 U J           |
| Endosulfan I           | µg/Kg        | 17 U           | NS            | 17 U J           | 17 U J    | 20 U         | 19 U          | 19 U J           |
| Dieldrin               | µg/Kg        | 35 U           | NS            | 35 U J           | 34 U J    | 39 U         | 38 U          | 38 U J           |
| 4,4'-DDE               | µg/Kg        | 35 U           | NS            | 35 U J           | 34 U J    | 39 U         | 41            | 43 J             |
| Endrin                 | µg/Kg        | 35 U           | NS            | 35 U J           | 34 U J    | 39 U         | 38 U          | 39 U J           |
| Endosulfan II          | µg/Kg        | 35 U           | NS            | 35 U J           | 34 U J    | 39 U         | 38 U          | 39 U J           |
| 4,4'-DDD               | µg/Kg        | 35 U           | NS            | 38 J             | 34 U J    | 39 U         | 38 U          | 39 U J           |
| Endosulfan sulfate     | µg/Kg        | 35 U           | NS            | 35 U J           | 34 U J    | 39 U         | 38 U          | 39 U J           |
| 4,4'-DDT               | µg/Kg        | 35 U           | NS            | 35 U J           | 34 U J    | 36 J         | 43            | 100 J            |
| Methoxychlor           | µg/Kg        | 170 U          | NS            | 170 U J          | 170 U J   | 200 U        | 190 U         | 190 U J          |
| Endrin ketone          | µg/Kg        | 35 U           | NS            | 35 U J           | 34 U J    | 39 U         | 38 U          | 39 U J           |
| Endrin aldehyde        | µg/Kg        | NS             | NS            | NS               | NS        | NS           | NS            | NS               |
| alpha-Chlordane        | µg/Kg        | 170 U          | NS            | 170 U J          | 170 U J   | 200 U        | 190 U         | 190 U J          |
| gamma-Chlordane        | µg/Kg        | 170 U          | NS            | 170 U J          | 170 U J   | 200 U        | 190 U         | 190 U J          |
| Toxaphene              | µg/Kg        | 350 U          | NS            | 350 U J          | 340 U J   | 390 U        | 380 U         | 390 U J          |
| Aroclor-1018           | µg/Kg        | 170 U          | NS            | 170 U J          | 170 U J   | 200 U        | 190 U         | 190 U J          |
| Aroclor-1221           | µg/Kg        | 170 U          | NS            | 170 U J          | 170 U J   | 200 U        | 190 U         | 190 U J          |
| Aroclor-1232           | µg/Kg        | 170 U          | NS            | 170 U J          | 170 U J   | 200 U        | 190 U         | 190 U J          |
| Aroclor-1242           | µg/Kg        | 180 J          | NS            | 170 U J          | 170 U J   | 400 R        | 220 R         | 190 U J          |
| Aroclor-1248           | µg/Kg        | 170 U          | NS            | 170 U J          | 170 U J   | 200 U        | 190 U         | 190 U J          |
| Aroclor-1254           | µg/Kg        | 350 U          | NS            | 350 U J          | 340 U J   | 390 U        | 380 U         | 390 U J          |
| Aroclor-1260           | µg/Kg        | 270 J          | NS            | 490 J            | 280 J     | 390 U        | 380 U         | 390 U J          |
| <b>HERBICIDES</b>      |              |                |               |                  |           |              |               |                  |
| 2,4-D                  | µg/Kg        | 55 U           | NS            | NS               | NS        | 60 U         | 59 U          | NS               |
| 2,4-DB                 | µg/Kg        | 55 U           | NS            | NS               | NS        | 60 U         | 59 U          | NS               |
| 2,4,5-T                | µg/Kg        | 5.5 U          | NS            | NS               | NS        | 6 U          | 5.9 U         | NS               |
| 2,4,5-TP (Silvex)      | µg/Kg        | 5.5 U          | NS            | NS               | NS        | 6 U          | 5.9 U         | NS               |
| Dalapon                | µg/Kg        | 130 U          | NS            | NS               | NS        | 140 U        | 140 U         | NS               |
| Dicamba                | µg/Kg        | 5.5 U          | NS            | NS               | NS        | 6 U          | 5.9 U         | NS               |
| Dichloroprop           | µg/Kg        | 55 U           | NS            | NS               | NS        | 60 U         | 59 U          | NS               |
| Dinoseb                | µg/Kg        | 27 U           | NS            | NS               | NS        | 30 U         | 30 U          | NS               |
| MCPA                   | µg/Kg        | 5500 U         | NS            | NS               | NS        | 6000 U       | 5900 U        | NS               |
| MCPP                   | µg/Kg        | 5500 U         | NS            | NS               | NS        | 6000 U       | 5900 U        | NS               |
| <b>METALS</b>          |              |                |               |                  |           |              |               |                  |
| Aluminum               | mg/kg        | 19600          | NS            | NS               | NS        | 16400        | 14100         | NS               |
| Antimony               | mg/kg        | 11.1 U J       | NS            | NS               | NS        | 9.9 U J      | 7.4 J         | NS               |
| Arsenic                | mg/kg        | 4.3            | NS            | NS               | NS        | 10.8         | 8.6           | NS               |
| Barium                 | mg/kg        | 63.9           | NS            | NS               | NS        | 136          | 111           | NS               |
| Beryllium              | mg/kg        | 1.1 R          | NS            | NS               | NS        | 1            | 0.67 R        | NS               |
| Cadmium                | mg/kg        | 3.7            | NS            | NS               | NS        | 3.8          | 3.7           | NS               |
| Calcium                | mg/kg        | 4110 J         | NS            | NS               | NS        | 24700 J      | 79200 J       | NS               |
| Chromium               | mg/kg        | 29.7           | NS            | NS               | NS        | 29.3 J       | 22.4 J        | NS               |
| Cobalt                 | mg/kg        | 13.7           | NS            | NS               | NS        | 11.8         | 10.8          | NS               |
| Copper                 | mg/kg        | 15.6           | NS            | NS               | NS        | 64.8         | 148           | NS               |
| Iron                   | mg/kg        | 35500          | NS            | NS               | NS        | 34400        | 30700         | NS               |
| Lead                   | mg/kg        | 8.2 J          | NS            | NS               | NS        | 160          | 202           | NS               |
| Magnesium              | mg/kg        | 7230           | NS            | NS               | NS        | 7810         | 8510          | NS               |
| Manganese              | mg/kg        | 449            | NS            | NS               | NS        | 670          | 495           | NS               |
| Mercury                | mg/kg        | 0.04 U         | NS            | NS               | NS        | 0.76         | 0.17          | NS               |
| Nickel                 | mg/kg        | 42.4           | NS            | NS               | NS        | 35.5 J       | 39.9 J        | NS               |
| Potassium              | mg/kg        | 2060           | NS            | NS               | NS        | 2610         | 2110          | NS               |
| Selenium               | mg/kg        | 0.19 U J       | NS            | NS               | NS        | 0.23 U J     | 0.22 U J      | NS               |
| Silver                 | mg/kg        | 0.76 J         | NS            | NS               | NS        | 0.63 U       | 0.56 J        | NS               |
| Sodium                 | mg/kg        | 62.9 J         | NS            | NS               | NS        | 113 J        | 141 J         | NS               |
| Thallium               | mg/kg        | 0.52 U         | NS            | NS               | NS        | 0.64 U       | 0.61 U        | NS               |
| Vanadium               | mg/kg        | 24.8           | NS            | NS               | NS        | 29.7         | 24.1          | NS               |
| Zinc                   | mg/kg        | 111            | NS            | NS               | NS        | 797          | 1210          | NS               |
| Cyanide                | mg/kg        | 0.65 U         | NS            | NS               | NS        | 0.72 U       | 0.63 U        | NS               |

SENECA ARMY DEPOT, ASH LANDFILL  
 SOIL ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL        | SOIL             | SOIL     | SOIL      | SOIL         | SOIL           |
|----------------------------|----------|-------------|------------------|----------|-----------|--------------|----------------|
|                            | LOCATION | B-31        | B-31             | B-31     | B-31      | B-31         | B-31           |
| VOCs                       | DEPTH    | DATE        | DATE             | DATE     | DATE      | DATE         | DATE           |
|                            | ES ID    | S1205-98(3) | S1205-98RE (3,4) | S1205-99 | S1205-99R | S1205-100(2) | S1205-100RE(4) |
|                            | LAB ID   | 150254      | 150254           | 150255   | 150255    | 150256       | 150256         |
|                            | UNITS    |             |                  |          |           |              |                |
| Chloromethane              | µg/Kg    | 12 U        | NS               | 56 U     | NS        | 63 U         | 63 U           |
| Bromomethane               | µg/Kg    | 12 U        | NS               | 56 U     | NS        | 63 U         | 63 U           |
| Vinyl Chloride             | µg/Kg    | 12 U        | NS               | 66       | NS        | 370          | 320            |
| Chloroethane               | µg/Kg    | 12 U        | NS               | 56 U     | NS        | 63 U         | 63 U           |
| Methylene Chloride         | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| Acetone                    | µg/Kg    | 12 U        | NS               | 56 U     | NS        | 63 U         | 63 U           |
| Carbon Disulfide           | µg/Kg    | 6 U         | NS               | 120      | NS        | 32 U         | 32 U           |
| 1,1-Dichloroethane         | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| 1,1-Dichloroethane         | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| 1,2-Dichloroethane (total) | µg/Kg    | 6 U         | NS               | 660      | NS        | 630          | 600            |
| Chloroform                 | µg/Kg    | 5 J         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| 1,2-Dichloroethane         | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| 2-Butanone                 | µg/Kg    | 12 U        | NS               | 56 U     | NS        | 63 U         | 63 U           |
| 1,1,1-Trichloroethane      | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| Carbon Tetrachloride       | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| Vinyl Acetate              | µg/Kg    | 12 U        | NS               | 56 U     | NS        | 63 U         | 63 U           |
| Bromodichloromethane       | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| 1,2-Dichloropropane        | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| cis-1,3-Dichloropropene    | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| Trichloroethene            | µg/Kg    | 5 J         | NS               | 2400 E   | NS        | 640          | 610            |
| Dibromochloromethane       | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| 1,1,2-Trichloroethane      | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| Benzene                    | µg/Kg    | 6 U         | NS               | 6 J      | NS        | 32 U         | 32 U           |
| trans-1,3-Dichloropropene  | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| Bromoform                  | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| 4-Methyl-2-Pentanone       | µg/Kg    | 12 U        | NS               | 56 U     | NS        | 63 U         | 63 U           |
| 2-Hexanone                 | µg/Kg    | 12 U        | NS               | 56 U     | NS        | 63 U         | 63 U           |
| Tetrachloroethene          | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| Toluene                    | µg/Kg    | 6 U         | NS               | 85       | NS        | 32 U         | 32 U           |
| Chlorobenzene              | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| Ethylbenzene               | µg/Kg    | 6 U         | NS               | 23 J     | NS        | 32 U         | 32 U           |
| Styrene                    | µg/Kg    | 6 U         | NS               | 28 U     | NS        | 32 U         | 32 U           |
| Xylene (total)             | µg/Kg    | 6 U         | NS               | 69       | NS        | 32 U         | 32 U           |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-31   | SOIL B-31       | SOIL B-31 | SOIL B-31 | SOIL B-31    | SOIL B-31      |
|------------------------------|-------------|-----------------|-----------|-----------|--------------|----------------|
| DEPTH                        | 2-4         | 2-4             | 4-6       | 4-6       | 6-8          | 6-8            |
| DATE                         | 12/05/91    | 12/05/91        | 12/05/91  | 12/05/91  | 12/05/91     | 12/05/91       |
| ES ID                        | S1205-98(3) | S1205-98RE(3,4) | S1205-99  | S1205-99R | S1205-100(2) | S1205-100RE(4) |
| LAB ID                       | 150254      | 150254          | 150255    | 150255    | 150256       | 150256         |
| COMPOUND                     | UNITS       |                 |           |           |              |                |
| <b>VOCs</b>                  |             |                 |           |           |              |                |
| <b>SEMIVOLATILES</b>         |             |                 |           |           |              |                |
| Phenol                       | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 14000 J        |
| bis(2-Chloroethyl) ether     | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2-Chlorophenol               | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 1,3-Dichlorobenzene          | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 1,4-Dichlorobenzene          | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Benzyl Alcohol               | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 1,2-Dichlorobenzene          | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2-Methylphenol               | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| bis(2-Chloroisopropyl) ether | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 4-Methylphenol               | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| N-Nitroso-d-n-propylamine    | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Hexachloroethane             | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Nitrobenzene                 | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Isophorone                   | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2-Nitrophenol                | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 1300 J         |
| 2,4-Dimethylphenol           | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Benzic acid                  | µg/Kg       | 3600 U          | NS        | 3500 U    | 3500 U       | 1500 J         |
| bis(2-Chloroethoxy) methane  | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2,4-Dichlorophenol           | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 1,2,4-Trichlorobenzene       | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Naphthalene                  | µg/Kg       | 780 U           | NS        | 180 J     | 200 J        | 4100 U         |
| 4-Chloroaniline              | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Hexachlorobutadiene          | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 4-Chloro-3-methylphenol      | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2-Methylnaphthalene          | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Hexachlorocyclopentadiene    | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2,4,6-Trichlorophenol        | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2,4,5-Trichlorophenol        | µg/Kg       | 3600 U          | NS        | 3500 U    | 3500 U       | 20000 U        |
| 2-Chloronaphthalene          | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2-Nitroaniline               | µg/Kg       | 3600 U          | NS        | 3500 U    | 3500 U       | 20000 U        |
| Dimethylphthalate            | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Acenaphthylene               | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2,6-Dinitrotoluene           | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 3-Nitroaniline               | µg/Kg       | 3600 U          | NS        | 3500 U    | 3500 U       | 20000 U        |
| Acenaphthene                 | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 2,4-Dinitrophenol            | µg/Kg       | 3600 U          | NS        | 3500 U    | 3500 U       | 20000 U        |
| 4-Nitrophenol                | µg/Kg       | 3600 U          | NS        | 3500 U    | 3500 U       | 1600 J         |
| Dibenzofuran                 | µg/Kg       | 780 U           | NS        | 110 U     | 720 U        | 4100 U         |
| 2,4-Dinitrotoluene           | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Diethylphthalate             | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 4-Chlorophenyl-phenylether   | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Fluorene                     | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 4-Nitroaniline               | µg/Kg       | 3600 U          | NS        | 3500 U    | 3500 U       | 20000 U        |
| 4,6-Dinitro-2-methylphenol   | µg/Kg       | 3600 U          | NS        | 720 U     | 3500 U       | 20000 U        |
| N-Nitrosodiphenylamine (1)   | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| 4-Bromophenyl-phenylether    | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Hexachlorobenzene            | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Pentachlorophenol            | µg/Kg       | 3600 U          | NS        | 3500 U    | 3500 U       | 20000 U        |
| Phenanthrene                 | µg/Kg       | 780 U           | NS        | 110 U     | 110 U        | 4100 U         |
| Anthracene                   | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Carbazole                    | µg/Kg       | NS              | NS        | NS        | NS           | NS             |
| Di-n-butylphthalate          | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Fluoranthene                 | µg/Kg       | 150 J           | NS        | 120 U     | 110 U        | 4100 U         |
| Pyrene                       | µg/Kg       | 110 J           | NS        | 140 U     | 130 U        | 4100 U         |
| Bunylbenzylphthalate         | µg/Kg       | 780 U           | NS        | 390 U     | 720 U        | 4100 U         |
| 3,3'-Dichlorobenzidine       | µg/Kg       | 1600 U          | NS        | 1400 U    | 1400 U       | 8100 U         |
| Benzo(a)anthracene           | µg/Kg       | 100 J           | NS        | 720 U     | 720 U        | 4100 U         |
| Chrysene                     | µg/Kg       | 100 J           | NS        | 83 U      | 110 U        | 4100 U         |
| bis(2-Ethylhexyl)phthalate   | µg/Kg       | 170 J           | NS        | 220 U     | 210 U        | 4100 U         |
| Di-n-octylphthalate          | µg/Kg       | 780 U           | NS        | 250 U     | 720 U        | 4100 U         |
| Benzo(b)fluoranthene         | µg/Kg       | 100 J           | NS        | 720 U     | 720 U        | 4100 U         |
| Benzo(k)fluoranthene         | µg/Kg       | 82 J            | NS        | 720 U     | 720 U        | 4100 U         |
| Benzo(a)pyrene               | µg/Kg       | 86 J            | NS        | 720 U     | 720 U        | 4100 U         |
| Indeno(1,2,3-cd)pyrene       | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Dibenz(a,h)anthracene        | µg/Kg       | 780 U           | NS        | 720 U     | 720 U        | 4100 U         |
| Benzo(g,h,i)perylene         | µg/Kg       | 72 J            | NS        | 720 U     | 720 U        | 4100 U         |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-31   | SOIL B-31       | SOIL B-31 | SOIL B-31 | SOIL B-31    | SOIL B-31      |
|------------------------|-------------|-----------------|-----------|-----------|--------------|----------------|
| DEPTH                  | 2-4         | 2-4             | 4-6       | 4-6       | 6-8          | 6-8            |
| DATE                   | 12/05/91    | 12/05/91        | 12/05/91  | 12/05/91  | 12/05/91     | 12/05/91       |
| ES ID                  | S1205-98(3) | S1205-98RE(3,4) | S1205-99  | S1205-99R | S1205-100(2) | S1205-100RE(4) |
| LAB ID                 | 150254      | 150254          | 150255    | 150255    | 150256       | 150256         |
| UNITS                  |             |                 |           |           |              |                |
| <b>COMPOUND</b>        |             |                 |           |           |              |                |
| <b>VOCs</b>            |             |                 |           |           |              |                |
| <b>PESTICIDES/PCBs</b> |             |                 |           |           |              |                |
| alpha-BHC              | µg/Kg       | 19 U            | 19 U J    | 17 U      | 17 U J       | 20 U           |
| beta-BHC               | µg/Kg       | 19 U            | 19 U J    | 17 U      | 17 U J       | 20 U           |
| delta-BHC              | µg/Kg       | 19 U            | 19 U J    | 17 U      | 17 U J       | 20 U           |
| gamma-BHC (Lindane)    | µg/Kg       | 19 U            | 19 U J    | 17 U      | 17 U J       | 20 U           |
| Heptachlor             | µg/Kg       | 19 U            | 19 U J    | 17 U      | 17 U J       | 20 U           |
| Aldrin                 | µg/Kg       | 19 U            | 19 U J    | 17 U      | 17 U J       | 20 U           |
| Heptachlor epoxide     | µg/Kg       | 19 U            | 19 U J    | 17 U      | 17 U J       | 20 U           |
| Endosulfan I           | µg/Kg       | 19 U            | 19 U J    | 17 U      | 17 U J       | 20 U           |
| Dieldrin               | µg/Kg       | 38 U            | 38 U J    | 35 U      | 35 U J       | 40 U           |
| 4,4'-DDE               | µg/Kg       | 57              | 71 J      | 35 U      | 35 U J       | 40 U           |
| Endrin                 | µg/Kg       | 38 U            | 38 U J    | 35 U      | 35 U J       | 40 U           |
| Endosulfan II          | µg/Kg       | 38 U            | 38 U J    | 35 U      | 35 U J       | 40 U           |
| 4,4'-DDD               | µg/Kg       | 38 U            | 38 U J    | 35 U      | 35 U J       | 40 U           |
| Endosulfan sulfate     | µg/Kg       | 38 U            | 38 U J    | 35 U      | 35 U J       | 40 U           |
| 4,4'-DDT               | µg/Kg       | 38 U            | 38 U J    | 35 U      | 35 U J       | 40 U           |
| Methoxychlor           | µg/Kg       | 190 U           | 190 U J   | 170 U     | 170 U J      | 200 U          |
| Endrin ketone          | µg/Kg       | 38 U            | 38 U J    | 35 U      | 35 U J       | 40 U           |
| Endrin aldehyde        | µg/Kg       | NS              | NS        | NS        | NS           | NS             |
| alpha-Chlordane        | µg/Kg       | 190 U           | 190 U J   | 170 U     | 170 U J      | 200 U          |
| gamma-Chlordane        | µg/Kg       | 190 U           | 190 U J   | 170 U     | 170 U J      | 200 U          |
| Toxaphene              | µg/Kg       | 380 U           | 380 U J   | 350 U     | 350 U J      | 400 U          |
| Aroclor-1016           | µg/Kg       | 190 U           | 190 U J   | 170 U     | 170 U J      | 200 U          |
| Aroclor-1221           | µg/Kg       | 190 U           | 190 U J   | 170 U     | 170 U J      | 200 U          |
| Aroclor-1232           | µg/Kg       | 190 U           | 190 U J   | 170 U     | 170 U J      | 200 U          |
| Aroclor-1242           | µg/Kg       | 1000 R          | 190 U J   | 570 R     | 170 U J      | 450 R          |
| Aroclor-1248           | µg/Kg       | 190 U           | 190 U J   | 170 U     | 170 U J      | 200 U          |
| Aroclor-1254           | µg/Kg       | 380 U           | 380 U J   | 350 U     | 350 U J      | 400 U          |
| Aroclor-1260           | µg/Kg       | 380 U           | 380 U J   | 350 U     | 350 U J      | 400 U          |
| <b>HERBICIDES</b>      |             |                 |           |           |              |                |
| 2,4-D                  | µg/Kg       | 60 U            | NS        | 54 U      | NS           | 61 U           |
| 2,4-DB                 | µg/Kg       | 60 U            | NS        | 54 U      | NS           | 61 U           |
| 2,4,5-T                | µg/Kg       | 6 U             | NS        | 5.4 U     | NS           | 6.1 U          |
| 2,4,5-TP (Silvex)      | µg/Kg       | 6 U             | NS        | 5.4 U     | NS           | 6.1 U          |
| Dalapon                | µg/Kg       | 140 U           | NS        | 130 U     | NS           | 150 U          |
| Dicamba                | µg/Kg       | 6 U             | NS        | 5.4 U     | NS           | 6.1 U          |
| Dichloroprop           | µg/Kg       | 60 U            | NS        | 54 U      | NS           | 61 U           |
| Dinoseb                | µg/Kg       | 30 U            | NS        | 27 U      | NS           | 31 U           |
| MCPA                   | µg/Kg       | 6000 U          | NS        | 6200 U    | NS           | 6100 U         |
| MCPP                   | µg/Kg       | 6000 U          | NS        | 6200 U    | NS           | 6100 U         |
| <b>METALS</b>          |             |                 |           |           |              |                |
| Aluminum               | mg/kg       | 25500           | NS        | 15000     | NS           | 21200          |
| Antimony               | mg/kg       | 8.7 U J         | NS        | 11.4 U J  | NS           | 13.1 U J       |
| Arsenic                | mg/kg       | 45.8            | NS        | 3.9       | NS           | 2.6            |
| Barium                 | mg/kg       | 121             | NS        | 52.2      | NS           | 61.1           |
| Beryllium              | mg/kg       | 0.98 R          | NS        | 0.86 R    | NS           | 1.1 R          |
| Cadmium                | mg/kg       | 4.3             | NS        | 3.5       | NS           | 4.4            |
| Calcium                | mg/kg       | 17800 J         | NS        | 25500 J   | NS           | 3460           |
| Chromium               | mg/kg       | 34.8            | NS        | 29.8      | NS           | 30.4           |
| Cobalt                 | mg/kg       | 15.4            | NS        | 14.4      | NS           | 18.1           |
| Copper                 | mg/kg       | 76.1            | NS        | 31.8      | NS           | 26.4           |
| Iron                   | mg/kg       | 41800           | NS        | 29000     | NS           | 44100          |
| Lead                   | mg/kg       | 696             | NS        | 88.5      | NS           | 15.3 J         |
| Magnesium              | mg/kg       | 9290            | NS        | 7020      | NS           | 7010           |
| Manganese              | mg/kg       | 724             | NS        | 337       | NS           | 541            |
| Mercury                | mg/kg       | 0.17            | NS        | 0.05 J    | NS           | 0.05 U         |
| Nickel                 | mg/kg       | 40.9            | NS        | 51.1      | NS           | 47             |
| Potassium              | mg/kg       | 2330            | NS        | 2170      | NS           | 1280           |
| Selenium               | mg/kg       | 0.23 U J        | NS        | 0.24 J    | NS           | 0.23 U J       |
| Silver                 | mg/kg       | 0.55 U          | NS        | 0.9 J     | NS           | 0.84 U         |
| Sodium                 | mg/kg       | 201 J           | NS        | 141 J     | NS           | 326 J          |
| Thallium               | mg/kg       | 0.64 U          | NS        | 0.51 U    | NS           | 0.66 U         |
| Vanadium               | mg/kg       | 28.3            | NS        | 22 R      | NS           | 25.3           |
| Zinc                   | mg/kg       | 472             | NS        | 393       | NS           | 93.5           |
| Cyanide                | mg/kg       | 0.83 U          | NS        | 0.64 U    | NS           | 0.73 U         |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX      | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |  |
|----------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|--|
|                            | LOCATION    | B-32     | B-32     | B-32     | B-32     | B-33     | B-33     | B-34     | B-34     |  |
|                            | DEPTH (FT.) | 0-2      | 2-4      | 4-6      | 6-7.6    | 0-2      | 2-3.5    | 0-2      | 2-2.75   |  |
|                            | DATE        | 04/27/93 | 04/27/93 | 04/27/93 | 04/27/93 | 12/14/92 | 12/14/92 | 12/14/92 | 12/14/92 |  |
|                            | ES ID       | B32-1    | B32-2    | B32-3    | B32-4    | B33-1    | B33-2    | B34-1    | B34-2    |  |
|                            | LAB ID      | 183092   | 183093   | 183094   | 183095   | 176253   | 176254   | 176255   | 178256   |  |
| UNITS                      |             |          |          |          |          |          |          |          |          |  |
| VOCs                       |             |          |          |          |          |          |          |          |          |  |
| Chloromethane              | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Bromomethane               | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Vinyl Chloride             | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Chloroethane               | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Methylene Chloride         | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Acetone                    | µg/Kg       | 17 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Carbon Disulfide           | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 1,1-Dichloroethane         | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 1,1-Dichloroethane         | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 1,2-Dichloroethane (total) | µg/Kg       | 110      | 12 U     | 1300 U   | 240 J    | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Chloroform                 | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 1,2-Dichloroethane         | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 2-Butanone                 | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 1,1,1-Trichloroethane      | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Carbon Tetrachloride       | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Vinyl acetate              | µg/Kg       | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |  |
| Bromodichloromethane       | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 1,2-Dichloropropane        | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| cis-1,3-Dichloropropene    | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Trichloroethene            | µg/Kg       | 140      | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Dibromochloromethane       | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 1,1,2-Trichloroethane      | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Benzene                    | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| trans-1,3-Dichloropropene  | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Bromoform                  | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 4-Methyl-2-Pentanone       | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 2-Hexanone                 | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Tetrachloroethene          | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Toluene                    | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Chlorobenzene              | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Ethylbenzene               | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Styrene                    | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |
| Xylene (total)             | µg/Kg       | 11 U     | 12 U     | 1300 U   | 1300 U   | 12 U     | 12 U     | 12 U     | 12 U     |  |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-32 | SOIL B-32 | SOIL B-32 | SOIL B-32 | SOIL B-33 | SOIL B-33 | SOIL B-34 | SOIL B-34 |       |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| DEPTH(FT.)                   | 0-2       | 2-4       | 4-6       | 6-7.8     | 0-2       | 2-3.5     | 0-2       | 2-2.75    |       |
| DATE                         | 04/27/93  | 04/27/93  | 04/27/93  | 04/27/93  | 12/14/92  | 12/14/92  | 12/14/92  | 12/14/92  |       |
| ES ID                        | B32-1     | B32-2     | B32-3     | B32-4     | B33-1     | B33-2     | B34-1     | B34-2     |       |
| LAB ID                       | 183092    | 183093    | 183094    | 183095    | 176253    | 176254    | 176255    | 176256    |       |
| COMPOUND VOCs                | UNITS     |           |           |           |           |           |           |           |       |
| <b>Semivolatiles</b>         |           |           |           |           |           |           |           |           |       |
| Phenol                       | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| bis(2-Chloroethyl) ether     | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2-Chlorophenol               | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 1,3-Dichlorobenzene          | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 1,4-Dichlorobenzene          | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Benzyl alcohol               | NS        | NS        | NS        | NS        | NS        | NS        | NS        | NS        | NS    |
| 1,2-Dichlorobenzene          | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2-Methylphenol               | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 4-Methylphenol               | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| N-Nitroso-di-n-propylamine   | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Hexachloroethane             | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Nitrobenzene                 | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Isophorone                   | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2-Nitrophenol                | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2,4-Dimethylphenol           | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Benzoic acid                 | NS        | NS        | NS        | NS        | NS        | NS        | NS        | NS        | NS    |
| bis(2-Chloroethoxy) methane  | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2,4-Dichlorophenol           | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 1,2,4-Trichlorobenzene       | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Naphthalene                  | µg/Kg     | 360 U     | 400 U     | 440 U     | 290 J     | 420 U     | 360 U     | 400 U     | 360 U |
| 4-Chloroaniline              | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Hexachlorobutadiene          | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 4-Chloro-3-methylphenol      | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 360 U     | 400 U |
| 2-Methylnaphthalene          | µg/Kg     | 360 U     | 400 U     | 440 U     | 320 J     | 420 U     | 360 U     | 400 U     | 360 U |
| Hexachlorocyclopentadiene    | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2,4,6-Trichlorophenol        | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2,4,5-Trichlorophenol        | µg/Kg     | 870 U     | 970 U     | 1100 U    | 880 U     | 1000 U    | 910 U     | 970 U     | 880 U |
| 2-Chloronaphthalene          | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2-Nitroaniline               | µg/Kg     | 870 U     | 970 U     | 1100 U    | 880 U     | 1000 U    | 910 U     | 970 U     | 880 U |
| Dimethylphthalate            | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Acanaphthylene               | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2,6-Dinitrotoluene           | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 3-Nitroaniline               | µg/Kg     | 870 U     | 970 U     | 1100 U    | 880 U     | 1000 U    | 910 U     | 970 U     | 880 U |
| Acanaphthene                 | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2,4-Dinitrophenol            | µg/Kg     | 870 U     | 970 U     | 1100 U    | 880 U     | 1000 U    | 910 U     | 970 U     | 880 U |
| 4-Nitrophenol                | µg/Kg     | 870 U     | 970 U     | 1100 U    | 880 U     | 1000 U    | 910 U     | 970 U     | 880 U |
| Dibenzofuran                 | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 2,4-Dinitrotoluene           | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Diethylphthalate             | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 4-Chlorophenyl-phenylether   | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Fluorene                     | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 4-Nitroaniline               | µg/Kg     | 870 U     | 970 U     | 1100 U    | 880 U     | 1000 U    | 910 U     | 970 U     | 880 U |
| 4,6-Dinitro-2-methylphenol   | µg/Kg     | 870 U     | 970 U     | 1100 U    | 880 U     | 1000 U    | 910 U     | 970 U     | 880 U |
| N-Nitrosodiphenylamine       | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 4-Bromophenyl-phenylether    | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Hexachlorobenzene            | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Pentachlorophenol            | µg/Kg     | 870 U     | 970 U     | 1100 U    | 880 U     | 1000 U    | 910 U     | 970 U     | 880 U |
| Phenanthrene                 | µg/Kg     | 360 U     | 400 U     | 440 U     | 140 J     | 20 J      | 360 U     | 51 J      | 360 U |
| Anthracene                   | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 19 J      | 360 U |
| Carbazole                    | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Di-n-butylphthalate          | µg/Kg     | 360 U     | 400 U     | 440 U     | 180 J     | 420 U     | 360 U     | 400 U     | 360 U |
| Fluoranthene                 | µg/Kg     | 80 J      | 400 U     | 440 U     | 350 U     | 28 J      | 360 U     | 62 J      | 360 U |
| Pyrene                       | µg/Kg     | 74 J      | 400 U     | 440 U     | 130 J     | 30 J      | 360 U     | 64 J      | 18 J  |
| Butylbenzylphthalate         | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| 3,3'-Dichlorobenzidine       | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Benzo(a)anthracene           | µg/Kg     | 58 J      | 400 U     | 440 U     | 350 U     | 18 J      | 360 U     | 42 J      | 360 U |
| Chrysene                     | µg/Kg     | 86 J      | 400 U     | 440 U     | 350 U     | 25 J      | 360 U     | 51 J      | 13 J  |
| bis(2-Ethylhexyl)phthalate   | µg/Kg     | 53 J      | 110 J     | 200 J     | 440       | 400 J     | 360 U     | 650       | 780   |
| Di-n-octylphthalate          | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Benzo(b)fluoranthene         | µg/Kg     | 87 J      | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 39 J      | 360 U |
| Benzo(k)fluoranthene         | µg/Kg     | 49 J      | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 39 J      | 360 U |
| Benzo(a)pyrene               | µg/Kg     | 56 J      | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 38 J      | 360 U |
| Indeno(1,2,3-cd)pyrene       | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 34 J      | 360 U |
| Dibenz(a,h)anthracene        | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 400 U     | 360 U |
| Benzo(g,h,i)perylene         | µg/Kg     | 360 U     | 400 U     | 440 U     | 350 U     | 420 U     | 360 U     | 37 J      | 360 U |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH(FT.) | SOIL B-32 0-2 | SOIL B-32 2-4 | SOIL B-32 4-6 | SOIL B-32 6-7.8 | SOIL B-33 0-2 | SOIL B-33 2-3.5 | SOIL B-34 0-2 | SOIL B-34 2-2.75 |
|----------------------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|------------------|
| DATE                       | 04/27/93      | 04/27/93      | 04/27/93      | 04/27/93        | 12/14/92      | 12/14/92        | 12/14/92      | 12/14/92         |
| ES ID                      | B32-1         | B32-2         | B32-3         | B32-4           | B33-1         | B33-2           | B34-1         | B34-2            |
| LAB ID                     | 183092        | 183093        | 183094        | 183095          | 176253        | 176254          | 176255        | 176256           |
| COMPOUND                   | UNITS         | UNITS         | UNITS         | UNITS           | UNITS         | UNITS           | UNITS         | UNITS            |
| <b>VOCs</b>                |               |               |               |                 |               |                 |               |                  |
| <b>Pesticides/PCBs</b>     |               |               |               |                 |               |                 |               |                  |
| alpha-BHC                  | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| beta-BHC                   | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| delta-BHC                  | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| gamma-BHC (Lindane)        | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| Heptachlor                 | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| Aldrin                     | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| Heptachlor epoxide         | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| Endosulfan I               | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| Dieldrin                   | µg/Kg         | 3.8 U         | 4 U           | 4.4 U           | 3.8 U         | 4.2 U           | 3.8 U         | 4 U              |
| 4,4'-DDE                   | µg/Kg         | 6.8           | 4 U           | 4.4 U           | 3.8 U         | 2.5 J           | 3.8 U         | 4.7 J            |
| Endrin                     | µg/Kg         | 3.8 U         | 4 U           | 4.4 U           | 3.8 U         | 4.2 U           | 3.8 U         | 4 U              |
| Endosulfan II              | µg/Kg         | 3.8 U         | 4 U           | 4.4 U           | 3.8 U         | 4.2 U           | 3.8 U         | 4 U              |
| 4,4'-DDD                   | µg/Kg         | 3.8 U         | 4 U           | 4.4 U           | 3.8 U         | 4.2 U           | 3.8 U         | 4 U              |
| Endosulfan sulfate         | µg/Kg         | 3.8 U         | 4 U           | 4.4 U           | 3.8 U         | 4.2 U           | 3.8 U         | 4 U              |
| 4,4'-DDT                   | µg/Kg         | 1.8 J         | 4 U           | 4.4 U           | 3.8 U         | 3.6 J           | 3.8 U         | 9                |
| Methoxychlor               | µg/Kg         | 19 U          | 21 U          | 23 U            | 19 U          | 22 U            | 19 U          | 21 U             |
| Endrin ketone              | µg/Kg         | 3.8 U         | 4 U           | 4.4 U           | 3.8 U         | 4.2 U           | 3.8 U         | 4 U              |
| Endrin aldehyde            | µg/Kg         | 3.8 U         | 4 U           | 4.4 U           | 3.8 U         | 4.2 U           | 3.8 U         | 4 U              |
| alpha-Chlordane            | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| gamma-Chlordane            | µg/Kg         | 1.9 U         | 2.1 U         | 2.3 U           | 1.9 U         | 2.2 U           | 1.9 U         | 2.1 U            |
| Toxaphene                  | µg/Kg         | 190 U         | 210 U         | 230 U           | 190 U         | 220 U           | 190 U         | 210 U            |
| Aroclor-1016               | µg/Kg         | 36 U          | 40 U          | 44 U            | 36 U          | 42 U            | 36 U          | 40 U             |
| Aroclor-1221               | µg/Kg         | 74 U          | 81 U          | 90 U            | 74 U          | 88 U            | 77 U          | 81 U             |
| Aroclor-1232               | µg/Kg         | 36 U          | 40 U          | 44 U            | 36 U          | 42 U            | 36 U          | 40 U             |
| Aroclor-1242               | µg/Kg         | 36 U          | 40 U          | 44 U            | 36 U          | 42 U            | 36 U          | 40 U             |
| Aroclor-1248               | µg/Kg         | 36 U          | 40 U          | 29 J            | 140 J         | 42 U            | 36 U          | 40 U             |
| Aroclor-1254               | µg/Kg         | 36 U          | 40 U          | 44 U            | 36 U          | 42 U            | 36 U          | 40 U             |
| Aroclor-1260               | µg/Kg         | 36 U          | 40 U          | 170             | 320 J         | 42 U            | 36 U          | 40 U             |
| <b>Herbicides</b>          |               |               |               |                 |               |                 |               |                  |
| 2,4-D                      | µg/Kg         | 58 U          | 61 U          | 68 U            | 55 U          | 64 U            | 57 U          | 61 U             |
| 2,4-DB                     | µg/Kg         | 58 U          | 61 U          | 68 U            | 55 U          | 64 U            | 57 U          | 61 U             |
| 2,4,5-T                    | µg/Kg         | 5.8 U         | 6.1 U         | 6.8 U           | 5.5 U         | 6.4 U           | 5.7 U         | 6.1 U            |
| 2,4,5-TP (Silvex)          | µg/Kg         | 5.8 U         | 6.1 U         | 6.8 U           | 5.5 U         | 6.4 U           | 5.7 U         | 6.1 U            |
| Dalapon                    | µg/Kg         | 140 U         | 150 U         | 170 U           | 140 U         | 150 U           | 140 U         | 150 U            |
| Dicamba                    | µg/Kg         | 5.8 U         | 6.1 U         | 6.8 U           | 5.5 U         | 6.4 U           | 5.7 U         | 6.1 U            |
| Dichloroprop               | µg/Kg         | 58 U          | 61.0 U        | 68 U            | 55 U          | 64 U            | 57 U          | 61 U             |
| Dinoseb                    | µg/Kg         | 28 U          | 31.0 U        | 34 U            | 28 U          | 32 U            | 29 U          | 30 U             |
| MCPA                       | µg/Kg         | 5800 U        | 6100.0 U      | 6800 U          | 5500 U        | 6400 U          | 5700 U        | 6100 U           |
| MCPP                       | µg/Kg         | 5800 U        | 6100.0 U      | 6800 U          | 5500 U        | 6400 U          | 5700 U        | 6100 U           |
| <b>Metals</b>              |               |               |               |                 |               |                 |               |                  |
| Aluminum                   | mg/Kg         | 13900         | 14400         | 16800           | 13900         | 19700           | 16000         | 21400            |
| Antimony                   | mg/Kg         | 5.7 UJ        | 5.7 UJ        | 4.9 UJ          | 3.7 UJ        | 6.9 UJ          | 7.7 UJ        | 7.5 UJ           |
| Arsenic                    | mg/Kg         | 4.5           | 4.5           | 5               | 2.7           | 2               | 1.6           | 3.8              |
| Barium                     | mg/Kg         | 85.1          | 105           | 81.8            | 46.8          | 108 J           | 58.9 J        | 99.1 J           |
| Beryllium                  | mg/Kg         | 0.69 J        | 0.81 J        | 0.8 J           | 0.82 J        | 1               | 0.74          | 1.1              |
| Cadmium                    | mg/Kg         | 0.41 U        | 0.42 U        | 0.36 U          | 0.27 U        | 0.4 U           | 0.44 U        | 0.43 U           |
| Calcium                    | mg/Kg         | 27900         | 8740          | 4310            | 3910          | 4620            | 46100         | 4340             |
| Chromium                   | mg/Kg         | 25.5          | 22.9          | 27.4            | 22.7          | 32 J            | 26.6 J        | 35 J             |
| Cobalt                     | mg/Kg         | 15.8          | 11.2          | 16.5            | 12            | 17.1            | 17.3          | 18.5             |
| Copper                     | mg/Kg         | 36.8          | 32.8          | 29.8            | 17.3          | 24.4            | 18.7          | 28               |
| Iron                       | mg/Kg         | 29800         | 28500         | 34900           | 28300         | 36800           | 35300         | 40200            |
| Lead                       | mg/Kg         | 44.8          | 38.1          | 15.5            | 5.8           | 19.2            | 6.7 R         | 9.1 R            |
| Magnesium                  | mg/Kg         | 7520          | 6030          | 6200            | 5710          | 6550            | 7260          | 7020             |
| Manganese                  | mg/Kg         | 499           | 799           | 430             | 513           | 1070            | 780           | 857              |
| Mercury                    | mg/Kg         | 0.21          | 0.04 U        | 0.05 U          | 0.03 U        | 0.06 R          | 0.04 R        | 0.09 R           |
| Nickel                     | mg/Kg         | 49.7          | 29.1          | 46.2            | 36            | 45.8            | 43.7          | 49.5             |
| Potassium                  | mg/Kg         | 1450          | 1550          | 1320            | 904           | 1580            | 1370          | 1520             |
| Selenium                   | mg/Kg         | 0.24 J        | 0.19 U        | 0.23 U          | 0.17 U        | 0.15 U          | 0.46 J        | 0.58 J           |
| Silver                     | mg/Kg         | 0.89 U        | 0.9 U         | 0.76 U          | 0.58 U        | 0.41 U          | 0.45 U        | 0.44 U           |
| Sodium                     | mg/Kg         | 118 J         | 107 U         | 91 U            | 68.7 U        | 52 J            | 162 J         | 55 J             |
| Thallium                   | mg/Kg         | 0.6 U         | 0.56 U        | 0.69 U          | 0.5 U         | 0.35 U          | 0.33 U        | 0.37 U           |
| Vanadium                   | mg/Kg         | 19.3          | 23.7          | 24.7            | 17            | 26.9            | 20.9          | 29               |
| Zinc                       | mg/Kg         | 194           | 129           | 132             | 79.1          | 114 J           | 87.8 J        | 200 J            |
| Cyanide                    | mg/Kg         | 0.66 U        | 0.71 U        | 0.81 U          | 0.66 U        | 0.76 U          | 0.85 U        | 0.7 U            |

SENECA ARMY DEPOT, ASH LANDFILL  
 SOIL ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION DEPTH (FT.) | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |  |
|----------------------------|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|--|
|                            |                             | B-35     | B-35     | B-35     | B-35     | B-35     | B-36     | B-36     | B-36     |  |
|                            |                             | 0-2      | 0-2      | 2-4      | 2-4      | 4-5.1    | 0-2      | 2-4      | 4-6      |  |
|                            | DATE                        | 12/15/92 | 12/15/92 | 12/15/92 | 12/15/92 | 12/15/92 | 04/27/93 | 04/27/93 | 04/27/93 |  |
|                            | ES ID                       | B35-1    | B35-1RE  | B35-2    | B35-2RE  | B35-3    | B36-1    | B36-2    | B36-3    |  |
|                            | LAB ID                      | 176442   | 176442R1 | 176443   | 176443R1 | 176444   | 183096   | 183097   | 183098   |  |
|                            | UNITS                       |          |          |          |          |          |          |          |          |  |
| VOCs                       |                             |          |          |          |          |          |          |          |          |  |
| Chloromethane              | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Bromomethane               | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Vinyl Chloride             | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 8 J      | 12 U     | 12 U     | 53 U     |  |
| Chloroethane               | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Methylene Chloride         | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Acetone                    | µg/Kg                       | 13 U J   | 13 U J   | 23 U     | NS       | 20 U     | 12 U     | 130      | 87       |  |
| Carbon Disulfide           | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| 1,1-Dichloroethene         | µg/Kg                       | 13 U J   | 13 U J   | 3 J      | NS       | 140      | 12 U     | 12 U     | 53 U     |  |
| 1,1-Dichloroethane         | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| 1,2-Dichloroethene (total) | µg/Kg                       | 13 U J   | 13 U J   | 13 J     | NS       | 200      | 12 U     | 12 U     | 53 U     |  |
| Chloroform                 | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| 1,2-Dichloroethane         | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| 2-Butanone                 | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 17       | 53 U     |  |
| 1,1,1-Trichloroethane      | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Carbon Tetrachloride       | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Vinyl acetate              | µg/Kg                       | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |  |
| Bromodichloromethane       | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| 1,2-Dichloropropane        | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| cis-1,3-Dichloropropene    | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Trichloroethene            | µg/Kg                       | 44 J     | 45 J     | 5 J      | NS       | 110      | 12 U     | 12 U     | 53 U     |  |
| Dibromochloromethane       | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| 1,1,2-Trichloroethane      | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Benzene                    | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| trans-1,3-Dichloropropene  | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Bromoform                  | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| 4-Methyl-2-Pentanone       | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| 2-Hexanone                 | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Tetrachloroethene          | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Toluene                    | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 3 J      | 11 J     |  |
| Chlorobenzene              | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Ethylbenzene               | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 8 J      |  |
| Styrene                    | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 53 U     |  |
| Xylene (total)             | µg/Kg                       | 13 U J   | 13 U J   | 13 U     | NS       | 12 U     | 12 U     | 12 U     | 91       |  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|------------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                              | LOCATION   | B-35     | B-35     | B-35     | B-35     | B-35     | B-36     | B-36     | B-36     |
| VOCs                         | DEPTH(FT.) | 0-2      | 0-2      | 2-4      | 2-4      | 4-5.1    | 0-2      | 2-4      | 4-6      |
| Semivolatiles                | DATE       | 12/15/92 | 12/15/92 | 12/15/92 | 12/15/92 | 12/15/92 | 04/27/93 | 04/27/93 | 04/27/93 |
|                              | ES ID      | B35-1    | B35-1RE  | B35-2    | B35-2RE  | B35-3    | B36-1    | B36-2    | B36-3    |
|                              | LAB ID     | 176442   | 176442R1 | 176443   | 176443R1 | 176444   | 183096   | 183097   | 183098   |
| UNITS                        |            |          |          |          |          |          |          |          |          |
| Phenol                       | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| bis(2-Chloroethyl) ether     | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2-Chlorophenol               | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 1,3-Dichlorobenzene          | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 1,4-Dichlorobenzene          | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Benzyl alcohol               | NS         | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dichlorobenzene          | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2-Methylphenol               | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 4-Methylphenol               | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 29 J     | 410 U    | 370 U    | 410 U    | 770 U    |
| N-Nitroso-d-n-propylamine    | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Hexachloroethane             | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Nitrobenzene                 | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Isophorone                   | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2-Nitrophenol                | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2,4-Dimethylphenol           | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Benzic acid                  | NS         | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| bis(2-Chloroethoxy) methane  | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2,4-Dichlorophenol           | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 1,2,4-Trichlorobenzene       | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Naphthalene                  | µg/Kg      | 52 J     | 23 J     | 8100 UJ  | 25 J     | 410 U    | 370 U    | 410 U    | 410 J    |
| 4-Chloroaniline              | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Hexachlorobutadiene          | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 4-Chloro-3-methylphenol      | µg/Kg      | 400 UJ   | 8100 UJ  | 400 UJ   | 410 UJ   | 360 U    | 370 U    | 410 U    | 770 U    |
| 2-Methylnaphthalene          | µg/Kg      | 20 J     | 19 J     | 8100 UJ  | 20 J     | 410 U    | 370 U    | 410 U    | 3600     |
| Hexachlorocyclopentadiene    | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2,4,6-Trichlorophenol        | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2,4,5-Trichlorophenol        | µg/Kg      | 980 UJ   | 980 UJ   | 20000 UJ | 980 UJ   | 990 U    | 910 U    | 980 U    | 1900 U   |
| 2-Chloronaphthalene          | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2-Nitroaniline               | µg/Kg      | 980 UJ   | 980 UJ   | 20000 UJ | 980 UJ   | 990 U    | 910 U    | 980 U    | 1900 U   |
| Dimethylphthalate            | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Acenaphthylene               | µg/Kg      | 14 J     | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 54 J     | 39 J     | 770 U    |
| 2,6-Dinitrotoluene           | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 3-Nitroaniline               | µg/Kg      | 980 UJ   | 980 UJ   | 20000 UJ | 980 UJ   | 990 U    | 910 U    | 980 U    | 1900 U   |
| Acenaphthene                 | µg/Kg      | 40 J     | 38 J     | 8100 UJ  | 13 J     | 410 U    | 370 U    | 410 U    | 770 U    |
| 2,4-Dinitrophenol            | µg/Kg      | 980 UJ   | 980 UJ   | 20000 UJ | 980 UJ   | 990 U    | 910 U    | 980 U    | 1900 U   |
| 4-Nitrophenol                | µg/Kg      | 980 UJ   | 980 UJ   | 20000 UJ | 980 UJ   | 990 U    | 910 U    | 980 U    | 1900 U   |
| Dibenzofuran                 | µg/Kg      | 24 J     | 24 J     | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 2,4-Dinitrotoluene           | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Diethylphthalate             | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 4-Chlorophenyl-phenylether   | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Fluorene                     | µg/Kg      | 36 J     | 35 J     | 8100 UJ  | 16 J     | 410 U    | 43 J     | 410 U    | 470 J    |
| 4-Nitroaniline               | µg/Kg      | 980 UJ   | 980 UJ   | 20000 UJ | 980 UJ   | 990 U    | 910 U    | 980 U    | 1900 U   |
| 4,6-Dinitro-2-methylphenol   | µg/Kg      | 980 UJ   | 980 UJ   | 20000 UJ | 980 UJ   | 990 U    | 910 U    | 980 U    | 1900 U   |
| N-Nitrosodiphenylamine       | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| 4-Bromophenyl-phenylether    | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Hexachlorobenzene            | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Pentachlorophenol            | µg/Kg      | 980 UJ   | 980 UJ   | 20000 UJ | 980 UJ   | 990 U    | 910 U    | 980 U    | 1900 U   |
| Phenanthrene                 | µg/Kg      | 460 J    | 430 J    | 330 J    | 260 J    | 410 U    | 300 J    | 230 J    | 1200     |
| Anthracene                   | µg/Kg      | 75 J     | 89 J     | 8100 UJ  | 67 J     | 410 U    | 81 J     | 410 U    | 770 U    |
| Carbazole                    | µg/Kg      | 180 J    | 180 J    | 8100 UJ  | 100 J    | 410 U    | 370 U    | 410 U    | 770 U    |
| Di-n-butylphthalate          | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 23 J     | 410 U    | 370 U    | 410 U    | 770 U    |
| Fluoranthene                 | µg/Kg      | 530 J    | 580 J    | 550 J    | 480 J    | 410 U    | 630      | 210 J    | 160 J    |
| Pyrene                       | µg/Kg      | 630 J    | 500 J    | 800 J    | 710 J    | 410 U    | 510      | 190 J    | 230 J    |
| Butylbenzylphthalate         | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 130 J    | 410 U    | 370 U    | 410 U    | 770 U    |
| 3,3'-Dichlorobenzidine       | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Benzo(a)anthracene           | µg/Kg      | 220 J    | 220 J    | 8100 UJ  | 430 J    | 410 U    | 460      | 150 J    | 770 U    |
| Chrysene                     | µg/Kg      | 290 J    | 290 J    | 420 J    | 450 J    | 410 U    | 430      | 100 J    | 770 U    |
| bis(2-Ethylhexyl)phthalate   | µg/Kg      | 400 UJ   | 400 UJ   | 1400 J   | 340 J    | 1700     | 190 J    | 370 J    | 700 J    |
| Di-n-octylphthalate          | µg/Kg      | 400 UJ   | 400 UJ   | 8100 UJ  | 400 UJ   | 410 U    | 370 U    | 410 U    | 770 U    |
| Benzo(b)fluoranthene         | µg/Kg      | 180 J    | 220 J    | 420 J    | 380 J    | 410 U    | 640      | 130 J    | 770 U    |
| Benzo(k)fluoranthene         | µg/Kg      | 210 J    | 210 J    | 8100 UJ  | 380 J    | 410 U    | 400      | 130 J    | 770 U    |
| Benzo(a)pyrene               | µg/Kg      | 100 J    | 120 J    | 8100 UJ  | 300 J    | 410 U    | 470      | 120 J    | 770 U    |
| Indeno(1,2,3-cd)pyrene       | µg/Kg      | 89 J     | 110 J    | 8100 UJ  | 200 J    | 410 U    | 280 J    | 110 J    | 770 U    |
| Dibenz(a,h)anthracene        | µg/Kg      | 48 J     | 29 J     | 8100 UJ  | 86 J     | 410 U    | 140 J    | 410 U    | 770 U    |
| Benzo(g,h,i)perylene         | µg/Kg      | 31 J     | 42 J     | 8100 UJ  | 56 J     | 410 U    | 150 J    | 410 U    | 770 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | MATRIX LOCATION | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|------------------------|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                        | DEPTH(FT.)      | B-35     | B-35     | B-35     | B-35     | B-35     | B-35     | B-36     | B-36     | B-36     |
|                        | DATE            | 0-2      | 0-2      | 2-4      | 2-4      | 4-5.1    | 0-2      | 2-4      | 4-6      | 4-6      |
|                        | ES ID           | 12/15/92 | 12/15/92 | 12/15/92 | 12/15/92 | 12/15/92 | 04/27/93 | 04/27/93 | 04/27/93 | 04/27/93 |
|                        | LAB ID          | B35-1    | B35-1RE  | B35-2    | B35-2RE  | B35-3    | B36-1    | B36-2    | B36-3    | B36-3    |
|                        | UNITS           | 176442   | 176442R1 | 176443   | 176443R1 | 176444   | 183096   | 183097   | 183098   | 183098   |
| <b>VOCs</b>            |                 |          |          |          |          |          |          |          |          |          |
| <b>Pesticides/PCBs</b> |                 |          |          |          |          |          |          |          |          |          |
| alpha-BHC              | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 1.9 U    | 4.2 U    | 2 U      |          |
| beta-BHC               | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 1.8 J    | 4.2 U    | 2 U      |          |
| delta-BHC              | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 1.9 U    | 2.3 J    | 2 U      |          |
| gamma-BHC (Lindane)    | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 1.9 U    | 4.2 U    | 2 U      |          |
| Heptachlor             | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 1.9 U    | 4.2 U    | 2 U      |          |
| Aldrin                 | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 1.9 U    | 4.2 U    | 2 U      |          |
| Heptachlor epoxide     | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 1.9 U    | 4.2 U    | 2 U      |          |
| Endosulfan I           | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 1.9 U    | 4.2 U    | 2 U      |          |
| Dieldrin               | µg/Kg           | 4 U      | NS       | 4 U      | NS       | 4 U      | 3.7 U    | 8.1 U    | 3.8 U    |          |
| 4,4'-DDE               | µg/Kg           | 3.9 J    | NS       | 5.6 J    | NS       | 4 U      | 22       | 2.3 J    |          |          |
| Endrin                 | µg/Kg           | 4 U      | NS       | 4 U      | NS       | 4 U      | 3.7 U    | 4.1 J    | 3.8 U    |          |
| Endosulfan II          | µg/Kg           | 4 U      | NS       | 4 U      | NS       | 4 U      | 2.7 J    | 8.1 U    | 3.8 U    |          |
| 4,4'-DDD               | µg/Kg           | 4 U      | NS       | 7.8      | NS       | 4 U      | 18       | 74       | 36       |          |
| Endosulfan sulfate     | µg/Kg           | 2.2 J    | NS       | 4 U      | NS       | 4 U      | 2.5 J    | 8.1 U    | 3.8 U    |          |
| 4,4'-DDT               | µg/Kg           | 3.9 J    | NS       | 4 U      | NS       | 4 U      | 7.1 J    | 13 J     | 3.6 U    |          |
| Methoxychlor           | µg/Kg           | 20 U     | NS       | 21 U     | NS       | 21 U     | 19 U     | 42 U     | 20 U     |          |
| Endrin ketone          | µg/Kg           | 4 U      | NS       | 4 U      | NS       | 4 U      | 5.5 J    | 8.1 U    | 3.8 U    |          |
| Endrin aldehyde        | µg/Kg           | 4 U      | NS       | 4 U      | NS       | 4 U      | 3.7 U    | 8.1 U    | 3.8 U    |          |
| alpha-Chlordane        | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 3.1 J    | 4.2 U    | 2 U      |          |
| gamma-Chlordane        | µg/Kg           | 2 U      | NS       | 2.1 U    | NS       | 2.1 U    | 2.1      | 4.2 U    | 2 U      |          |
| Toxaphene              | µg/Kg           | 200 U    | NS       | 210 U    | NS       | 210 U    | 190 U    | 420 U    | 200 U    |          |
| Aroclor-1016           | µg/Kg           | 40 U     | NS       | 40 U     | NS       | 40 U     | 37 U     | 81 U     | 38 U     |          |
| Aroclor-1221           | µg/Kg           | 80 U     | NS       | 82 U     | NS       | 82 U     | 76 U     | 160 U    | 78 U     |          |
| Aroclor-1232           | µg/Kg           | 40 U     | NS       | 40 U     | NS       | 40 U     | 37 U     | 81 U     | 38 U     |          |
| Aroclor-1242           | µg/Kg           | 40 U     | NS       | 40 U     | NS       | 40 U     | 37 U     | 81 U     | 38 U     |          |
| Aroclor-1248           | µg/Kg           | 40 U     | NS       | 40 U     | NS       | 40 U     | 37 U     | 81 U     | 92 J     |          |
| Aroclor-1254           | µg/Kg           | 40 U     | NS       | 25 J     | NS       | 40 U     | 37 U     | 81 U     | 38 U     |          |
| Aroclor-1280           | µg/Kg           | 40 U     | NS       | 40 U     | NS       | 40 U     | 37 U     | 350 J    | 180 J    |          |
| <b>Herbicides</b>      |                 |          |          |          |          |          |          |          |          |          |
| 2,4-D                  | µg/Kg           | 60 U     | NS       | 61 U     | NS       | 61 U     | 57 U     | 62 U     | 58 U     |          |
| 2,4-DB                 | µg/Kg           | 60 U     | NS       | 61 U     | NS       | 61 U     | 57 U     | 62 U     | 58 U     |          |
| 2,4,5-T                | µg/Kg           | 6 U      | NS       | 6.1 U    | NS       | 6.1 U    | 5.7 U    | 6.2 U    | 5.8 U    |          |
| 2,4,5-TP (Silvex)      | µg/Kg           | 6 U      | NS       | 6.1 U    | NS       | 6.1 U    | 5.7 U    | 6.2 U    | 5.8 U    |          |
| Dalapon                | µg/Kg           | 140 U    | NS       | 150 U    | NS       | 150 U    | 140 U    | 150 U    | 140 U    |          |
| Dicamba                | µg/Kg           | 6 U      | NS       | 6.1 U    | NS       | 6.1 U    | 5.7 U    | 6.2 U    | 5.8 U    |          |
| Dichloroprop           | µg/Kg           | 60 U     | NS       | 61 U     | NS       | 61 U     | 57.0 U   | 62 U     | 58 U     |          |
| Dinoseb                | µg/Kg           | 30 U     | NS       | 31 U     | NS       | 30 U     | 29.0 U   | 31 U     | 29 U     |          |
| MCPA                   | µg/Kg           | 6000 U   | NS       | 6100 U   | NS       | 6100 U   | 5700.0 U | 6200 U   | 5800 U   |          |
| MCPP                   | µg/Kg           | 6000 U   | NS       | 6100 U   | NS       | 6100 U   | 5700.0 U | 6200 U   | 5800 U   |          |
| <b>Metals</b>          |                 |          |          |          |          |          |          |          |          |          |
| Aluminum               | mg/Kg           | 14300    | NS       | 15000    | NS       | 22000    | 11700    | 16200    | 15300    |          |
| Antimony               | mg/Kg           | 8 J      | NS       | 9.1 UJ   | NS       | 7.2 UJ   | 3.8 UJ   | 4.7 UJ   | 5.8 UJ   |          |
| Arsenic                | mg/Kg           | 1.7      | NS       | 3.8      | NS       | 2.1      | 9.8      | 8.1      | 4.6      |          |
| Barium                 | mg/Kg           | 183 J    | NS       | 182 J    | NS       | 98.1 J   | 73.7     | 133      | 82.5     |          |
| Beryllium              | mg/Kg           | 0.59 J   | NS       | 0.7 J    | NS       | 1.1      | 0.57 J   | 0.85 J   | 0.71 J   |          |
| Cadmium                | mg/Kg           | 0.71     | NS       | 0.8 J    | NS       | 0.42 U   | 0.39 J   | 0.35 U   | 0.43 U   |          |
| Calcium                | mg/Kg           | 25200    | NS       | 30400    | NS       | 5010     | 40400    | 7650     | 14200    |          |
| Chromium               | mg/Kg           | 28.9 J   | NS       | 34.2 J   | NS       | 36.9 J   | 26.5     | 24.8     | 24.4     |          |
| Cobalt                 | mg/Kg           | 10.6     | NS       | 11       | NS       | 17.7     | 11.5     | 12       | 12.6     |          |
| Copper                 | mg/Kg           | 75.5     | NS       | 73.2     | NS       | 23.3     | 51.8     | 27.1     | 26.4     |          |
| Iron                   | mg/Kg           | 26600    | NS       | 30200    | NS       | 42900    | 36900    | 28100    | 30200    |          |
| Lead                   | mg/Kg           | 126      | NS       | 203      | NS       | 25.4     | 110      | 57.9     | 14.9     |          |
| Magnesium              | mg/Kg           | 7380     | NS       | 7410     | NS       | 7690     | 7020     | 5320     | 6000     |          |
| Manganese              | mg/Kg           | 476      | NS       | 443      | NS       | 1250     | 472      | 669      | 886      |          |
| Mercury                | mg/Kg           | 0.39     | NS       | 0.76     | NS       | 0.06 R   | 0.33     | 0.14     | 0.05 U   |          |
| Nickel                 | mg/Kg           | 35.4     | NS       | 36.1     | NS       | 54.4     | 42.9     | 32.8     | 40.1     |          |
| Potassium              | mg/Kg           | 1130     | NS       | 1600     | NS       | 1680     | 1210     | 1420     | 1420     |          |
| Selenium               | mg/Kg           | 1        | NS       | 1.1      | NS       | 0.67 J   | 0.23 U   | 0.59 J   | 0.22 J   |          |
| Silver                 | mg/Kg           | 0.4 U    | NS       | 0.82 J   | NS       | 0.43 U   | 0.82 J   | 0.75 U   | 0.92 U   |          |
| Sodium                 | mg/Kg           | 203 J    | NS       | 266 J    | NS       | 248 J    | 120 J    | 88.9 U   | 109 U    |          |
| Thallium               | mg/Kg           | 0.33 U   | NS       | 0.39 U   | NS       | 0.35 U   | 0.68 U   | 0.43 U   | 0.63 U   |          |
| Vanadium               | mg/Kg           | 21.3     | NS       | 22.8     | NS       | 28.9     | 23.9     | 25.5     | 23.6     |          |
| Zinc                   | mg/Kg           | 6290     | NS       | 4210     | NS       | 116 J    | 252      | 108      | 99.6     |          |
| Cyanide                | mg/Kg           | 0.49 U   | NS       | 2.2      | NS       | 0.67 U   | 0.68 U   | 0.74 U   | 0.59 U   |          |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX                 | SOIL          | SOIL        | SOIL        | SOIL        | SOIL          | SOIL          | SOIL        | SOIL        |
|----------------------------|------------------------|---------------|-------------|-------------|-------------|---------------|---------------|-------------|-------------|
|                            | LOCATION<br>DEPTH(FT.) | B-36<br>6-7.9 | B-36<br>4-6 | B-37<br>0-2 | B-37<br>2-4 | B-37<br>4-5.5 | B-37<br>4-5.5 | B-38<br>0-2 | B-38<br>0-2 |
|                            | DATE                   | 04/27/93      | 04/27/93    | 04/28/93    | 04/28/93    | 04/28/93      | 04/28/93      | 04/28/93    | 04/28/93    |
|                            | ES ID                  | B36-4         | B36-6       | B37-1       | B37-2       | B37-3         | B37-6         | B38-1       | B38-1RE     |
|                            | LAB ID                 | 183099        | 183100      | 183181      | 183182      | 183183        | 183184        | 183185      | 183185R1    |
|                            | UNITS                  |               | DUP B36-3   |             |             |               | DUP B37-3     |             |             |
| VOCs                       |                        |               |             |             |             |               |               |             |             |
| Chloromethane              | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Bromomethane               | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Vinyl Chloride             | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Chloroethane               | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Methylene Chloride         | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Acetone                    | µg/Kg                  | 1300 U        | 100         | 13 U        | 11 U        | 11 U          | 13 U          | 11 U        | NS          |
| Carbon Disulfide           | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 1,1-Dichloroethane         | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 1,1-Dichloroethane         | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 1,2-Dichloroethane (total) | µg/Kg                  | 1300 U        | 58 U        | 3 J         | 2 J         | 16            | 12            | 7 J         | NS          |
| Chloroform                 | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 1,2-Dichloroethane         | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 2-Butanone                 | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 1,1,1-Trichloroethane      | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Carbon Tetrachloride       | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Vinyl acetate              | NS                     | NS            | NS          | NS          | NS          | NS            | NS            | NS          | NS          |
| Bromodichloromethane       | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 1,2-Dichloropropane        | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| cis-1,3-Dichloropropene    | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Trichloroethene            | µg/Kg                  | 1300 U        | 58 U        | 6 J         | 10 J        | 37            | 38            | 73          | NS          |
| Dibromochloromethane       | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 1,1,2-Trichloroethane      | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Benzene                    | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| trans-1,3-Dichloropropene  | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Bromoform                  | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 4-Methyl-2-Pentanone       | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 2-Hexanone                 | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Tetrachloroethane          | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| 1,1,2,2-Tetrachloroethane  | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Toluene                    | µg/Kg                  | 1300 U        | 8 J         | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Chlorobenzene              | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Ethylbenzene               | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Styrene                    | µg/Kg                  | 1300 U        | 58 U        | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |
| Xylene (total)             | µg/Kg                  | 500 J         | 76          | 13 U        | 11 U        | 11 U          | 11 U          | 11 U        | NS          |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH (FT.)  | SOIL B-36 6-7.9 DATE 04/27/93 ES ID B36-4 LAB ID 183099 | SOIL B-36 4-6 04/27/93 B36-6 183100 | SOIL B-37 0-2 04/28/93 B37-1 183181 | SOIL B-37 2-4 04/28/93 B37-2 183182 | SOIL B-37 4-5.5 04/28/93 B37-3 183183 | SOIL B-37 4-5.5 04/28/93 B37-6 183184 | SOIL B-38 0-2 04/28/93 B38-1 183185 | SOIL B-38 0-2 04/28/93 B38-1RE 183185R1 |       |
|------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|---|-------|
| COMPOUND                     | UNITS   | DUP B36-3                           |                                     |                                     |                                       | DUP B37-3                             |                                     |   |       |
| <b>VOCs</b>                  |   |                                     |                                     |                                     |                                       |                                       |                                     |   |       |
| <b>Semivolatiles</b>         |   |                                     |                                     |                                     |                                       |                                       |                                     |   |       |
| Phenol                       | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 380 U                                   | 360 U |
| bis(2-Chloroethyl) ether     | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2-Chlorophenol               | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 1,3-Dichlorobenzene          | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 1,4-Dichlorobenzene          | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Benzyl alcohol               | NS  | NS                                  | NS                                  | NS                                  | NS                                    | NS                                    | NS                                  | NS                                      | NS    |
| 1,2-Dichlorobenzene          | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2-Methylphenol               | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 4-Methylphenol               | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| N-Nitroso-di-n-propylamine   | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Hexachloroethane             | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Nitrobenzene                 | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Isophorone                   | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2-Nitrophenol                | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2,4-Dimethylphenol           | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Benzic acid                  | NS  | NS                                  | NS                                  | NS                                  | NS                                    | NS                                    | NS                                  | NS                                      | NS    |
| bis(2-Chloroethoxy) methane  | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2,4-Dichlorophenol           | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 1,2,4-Trichlorobenzene       | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Naphthalene                  | µg/Kg   | 480 J                               | 370 J                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 4-Chloroaniline              | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Hexachlorobutadiene          | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 4-Chloro-3-methylphenol      | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2-Methylnaphthalene          | µg/Kg   | 1900                                | 3200                                | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Hexachlorocyclopentadiene    | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2,4,6-Trichlorophenol        | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2,4,5-Trichlorophenol        | µg/Kg   | 1500 U                              | 940 U                               | 1100 U                              | 940 U                                 | 870 U                                 | 890 U                               | 880 U                                   | 880 U |
| 2-Chloronaphthalene          | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2-Nitroaniline               | µg/Kg   | 1500 U                              | 940 U                               | 1100 U                              | 940 U                                 | 870 U                                 | 890 U                               | 880 U                                   | 880 U |
| Dimethylphthalate            | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Acenaphthylene               | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2,6-Dinitrotoluene           | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 3-Nitroaniline               | µg/Kg   | 1500 U                              | 940 U                               | 1100 U                              | 940 U                                 | 870 U                                 | 890 U                               | 880 U                                   | 880 U |
| Acenaphthene                 | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 64 J                                    | 67 J  |
| 2,4-Dinitrophenol            | µg/Kg   | 1500 U                              | 940 U                               | 1100 U                              | 940 U                                 | 870 U                                 | 890 U                               | 880 U                                   | 880 U |
| 4-Nitrophenol                | µg/Kg   | 1500 U                              | 940 U                               | 1100 U                              | 940 U                                 | 870 U                                 | 890 U                               | 880 U                                   | 880 U |
| Dibenzofuran                 | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 2,4-Dinitrotoluene           | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Diethylphthalate             | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 4-Chlorophenyl-phenyl ether  | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Fluorene                     | µg/Kg   | 480 J                               | 660                                 | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 65 J                                    | 72 J  |
| 4-Nitroaniline               | µg/Kg   | 1500 U                              | 940 U                               | 1100 U                              | 940 U                                 | 870 U                                 | 890 U                               | 880 U                                   | 880 U |
| 4,6-Dinitro-2-methylphenol   | µg/Kg   | 1500 U                              | 940 U                               | 1100 U                              | 940 U                                 | 870 U                                 | 890 U                               | 880 U                                   | 880 U |
| N-Nitrosodiphenylamine       | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 4-Bromophenyl-phenyl ether   | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Hexachlorobenzene            | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Pentachlorophenol            | µg/Kg   | 1500 U                              | 940 U                               | 1100 U                              | 940 U                                 | 870 U                                 | 890 U                               | 880 U                                   | 880 U |
| Phenanthrene                 | µg/Kg   | 1200                                | 1400                                | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 870                                     | 830   |
| Anthracene                   | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 210 J                                   | 250 J |
| Carbazole                    | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Di-n-butylphthalate          | µg/Kg   | 420 J                               | 290 J                               | 460 U                               | 390 U                                 | 110 J                                 | 160 J                               | 130 J                                   | 120 J |
| Fluoranthene                 | µg/Kg   | 610 U                               | 94 J                                | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 1500                                    | 1300  |
| Pyrene                       | µg/Kg   | 290 J                               | 98 J                                | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 1400                                    | 1300  |
| Butylbenzylphthalate         | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| 3,3'-Dichlorobenzidine       | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |
| Benzo(a)anthracene           | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 730 J                                   | 740 J |
| Chrysene                     | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 490                                     | 500   |
| bis(2-Ethylhexyl)phthalate   | µg/Kg   | 790                                 | 390 J                               | 83 J                                | 99 J                                  | 170 J                                 | 290 J                               | 260 J                                   | 250 J |
| Di-n-octylphthalate          | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 51 J                                    | 360 U |
| Benzo(b)fluoranthene         | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 660                                     | 740 J |
| Benzo(k)fluoranthene         | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 J                                   | 310 J |
| Benzo(a)pyrene               | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 370                                     | 380   |
| Indeno(1,2,3-cd)pyrene       | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 160 J                                   | 150 J |
| Dibenz(a,h)anthracene        | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 UJ                                  | 360 U |
| Benzo(g,h,i)perylene         | µg/Kg   | 610 U                               | 390 U                               | 460 U                               | 390 U                                 | 360 U                                 | 370 U                               | 360 U                                   | 360 U |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL      | SOIL     | SOIL      | SOIL     | SOIL     | SOIL      | SOIL     | SOIL     | SOIL     |
|------------------------|-----------|----------|-----------|----------|----------|-----------|----------|----------|----------|
| DEPTH(FT.)             | B-36      | B-36     | B-37      | B-37     | B-37     | B-37      | B-37     | B-38     | B-38     |
| DATE                   | 6-7.9     | 4-6      | 0-2       | 2-4      | 4-5.5    | 4-5.5     | 0-2      | 0-2      | 0-2      |
| ES ID                  | 04/27/93  | 04/27/93 | 04/28/93  | 04/28/93 | 04/28/93 | 04/28/93  | 04/28/93 | 04/28/93 | 04/28/93 |
| LAB ID                 | B36-4     | B36-6    | B37-1     | B37-2    | B37-3    | B37-6     | B38-1    | B38-1    | B38-1RE  |
| UNITS                  | 183099    | 183100   | 183181    | 183182   | 183183   | 183184    | 183185   | 183185   | 183185R1 |
| COMPOUND               | DUP B36-3 |          | DUP B37-3 |          |          | DUP B37-3 |          |          |          |
| <b>VOCs</b>            |           |          |           |          |          |           |          |          |          |
| <b>Pesticides/PCBs</b> |           |          |           |          |          |           |          |          |          |
| alpha-BHC              | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 1.9 U    | NS       |
| beta-BHC               | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 1.9 U    | NS       |
| delta-BHC              | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 1.6 J    | NS       |
| gamma-BHC (Lindane)    | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 1.9 U    | NS       |
| Heptachlor             | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 1.9 U    | NS       |
| Aldrin                 | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 1.9 U    | NS       |
| Heptachlor epoxide     | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 1.9 U    | NS       |
| Endosulfan I           | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 2.1 J    | NS       |
| Dieldrin               | µg/Kg     | 3.8 U    | 3.9 U     | 4.8 U    | 3.9 U    | 3.8 U     | 3.7 U    | 3.8 U    | NS       |
| 4,4'-DDE               | µg/Kg     | 3.8 U    | 2.2 J     | 4.8 U    | 3.9 U    | 3.8 U     | 3.7 U    | 3.4 J    | NS       |
| Endrin                 | µg/Kg     | 3.8 U    | 3.9 U     | 4.8 U    | 3.9 U    | 3.8 U     | 3.7 U    | 3.8 U    | NS       |
| Endosulfan II          | µg/Kg     | 3.8 U    | 3.9 U     | 4.8 U    | 3.9 U    | 3.8 U     | 3.7 U    | 3.8 U    | NS       |
| 4,4'-DDD               | µg/Kg     | 15       | 35        | 4.8 U    | 3.9 U    | 3.8 U     | 3.7 U    | 3.8 U    | NS       |
| Endosulfan sulfate     | µg/Kg     | 3.8 U    | 3.9 U     | 4.8 U    | 3.9 U    | 3.8 U     | 3.7 U    | 3.8 U    | NS       |
| 4,4'-DDT               | µg/Kg     | 3.8 U    | 3.9 U     | 4.8 U    | 3.9 U    | 3.8 U     | 3.7 U    | 3.8 U    | NS       |
| Methoxychlor           | µg/Kg     | 13 J     | 20 U      | 24 U     | 20 U     | 18 U      | 19 U     | 19 U     | NS       |
| Endrin ketone          | µg/Kg     | 3.8 U    | 3.9 U     | 4.8 U    | 3.9 U    | 3.8 U     | 3.7 U    | 5.6 J    | NS       |
| Endrin aldehyde        | µg/Kg     | 3.8 U    | 3.9 U     | 4.8 U    | 3.9 U    | 3.8 U     | 3.7 U    | 3.8 U    | NS       |
| alpha-Chlordane        | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 1.3 J    | NS       |
| gamma-Chlordane        | µg/Kg     | 1.9 U    | 2 U       | 2.4 U    | 2 U      | 1.8 U     | 1.9 U    | 1.9 U    | NS       |
| Toxaphene              | µg/Kg     | 190 U    | 200 U     | 240 U    | 200 U    | 180 U     | 190 U    | 190 U    | NS       |
| Aroclor-1018           | µg/Kg     | 36 U     | 39 U      | 46 U     | 39 U     | 36 U      | 37 U     | 36 U     | NS       |
| Aroclor-1221           | µg/Kg     | 74 U     | 80 U      | 94 U     | 78 U     | 72 U      | 74 U     | 73 U     | NS       |
| Aroclor-1232           | µg/Kg     | 36 U     | 39 U      | 46 U     | 39 U     | 36 U      | 37 U     | 36 U     | NS       |
| Aroclor-1242           | µg/Kg     | 36 U     | 39 U      | 46 U     | 39 U     | 36 U      | 37 U     | 36 U     | NS       |
| Aroclor-1246           | µg/Kg     | 180 J    | 89 J      | 46 U     | 39 U     | 36 U      | 37 U     | 36 U     | NS       |
| Aroclor-1254           | µg/Kg     | 36 U     | 39 U      | 46 U     | 39 U     | 36 U      | 37 U     | 36 U     | NS       |
| Aroclor-1260           | µg/Kg     | 390 J    | 170 J     | 46 U     | 39 U     | 36 U      | 37 U     | 36 U     | NS       |
| <b>Herbicides</b>      |           |          |           |          |          |           |          |          |          |
| 2,4-D                  | µg/Kg     | 58 U     | 59 U      | 71 U     | 59 U     | 54 U      | 56 U     | 55 U     | NS       |
| 2,4-DB                 | µg/Kg     | 58 U     | 59 U      | 71 U     | 59 U     | 54 U      | 56 U     | 55 U     | NS       |
| 2,4,5-T                | µg/Kg     | 5.8 U    | 5.9 U     | 7.1 U    | 5.9 U    | 5.4 U     | 5.6 U    | 5.5 U    | NS       |
| 2,4,5-TP (Silvex)      | µg/Kg     | 5.8 U    | 5.9 U     | 7.1 U    | 5.9 U    | 5.4 U     | 5.6 U    | 5.5 U    | NS       |
| Dalapon                | µg/Kg     | 140 U    | 150 U     | 170 U    | 150 U    | 130 U     | 140 U    | 140 U    | NS       |
| Dicamba                | µg/Kg     | 5.8 U    | 5.9 U     | 7.1 U    | 5.9 U    | 5.4 U     | 5.6 U    | 5.5 U    | NS       |
| Dichloroprop           | µg/Kg     | 58 U     | 59 U      | 71 U     | 59 U     | 54 U      | 56 U     | 55 U     | NS       |
| Dinoseb                | µg/Kg     | 28 U     | 30 U      | 36 U     | 30 U     | 27 U      | 28 U     | 28 U     | NS       |
| MCPA                   | µg/Kg     | 5800 U   | 5900 U    | 7100 U   | 5900 U   | 5400 U    | 5600 U   | 5500 U   | NS       |
| MCPP                   | µg/Kg     | 5800 U   | 5900 U    | 7100 U   | 5900 U   | 5400 U    | 5600 U   | 5500 U   | NS       |
| <b>Metals</b>          |           |          |           |          |          |           |          |          |          |
| Aluminum               | mg/Kg     | 11500    | 15700     | 15400    | 15400    | 16000     | 12800    | 9120     | NS       |
| Antimony               | mg/Kg     | 3.1 UJ   | 4.1 UJ    | 7.3 UJ   | 5.4 UJ   | 3.5 UJ    | 4.8 UJ   | 4.2 J    | NS       |
| Arsenic                | mg/Kg     | 4.1      | 5.3       | 2.5      | 4.4      | 5.9       | 2.1 J    | 2.8      | NS       |
| Barium                 | mg/Kg     | 50.8     | 75.2      | 114      | 75.2     | 88.7      | 36.4     | 211      | NS       |
| Beryllium              | mg/Kg     | 0.52 J   | 0.77      | 0.92 J   | 0.74 J   | 0.74      | 0.55 J   | 0.46 J   | NS       |
| Cadmium                | mg/Kg     | 0.22 U   | 0.3 U     | 0.74 J   | 0.4 U    | 0.26 U    | 0.35 U   | 0.36 J   | NS       |
| Calcium                | mg/Kg     | 81500    | 7700      | 8020     | 26900    | 7240      | 21700    | 16000    | NS       |
| Chromium               | mg/Kg     | 18.1     | 25.5      | 22.7     | 24.7     | 25.6      | 20.1     | 18.4     | NS       |
| Cobalt                 | mg/Kg     | 10.8     | 15.2      | 9.6 J    | 14.5     | 14.3      | 10.8     | 11.5     | NS       |
| Copper                 | mg/Kg     | 19.4     | 31.4      | 34.7     | 26.4     | 22.8      | 10.3     | 38.4     | NS       |
| Iron                   | mg/Kg     | 23400    | 34600     | 25200    | 30000    | 31000     | 25800    | 19000    | NS       |
| Lead                   | mg/Kg     | 9.5      | 12.4      | 18.3     | 8.2      | 8.7       | 2.9      | 59       | NS       |
| Magnesium              | mg/Kg     | 7780     | 8090      | 4210     | 6080     | 6200      | 5520     | 4270     | NS       |
| Manganese              | mg/Kg     | 495      | 818       | 337      | 757      | 676       | 478      | 400      | NS       |
| Mercury                | mg/Kg     | 0.05 U   | 0.05 U    | 0.05 U   | 0.04 U   | 0.04 U    | 0.05 U   | 0.04 J   | NS       |
| Nickel                 | mg/Kg     | 31       | 44.1      | 28       | 41.3     | 39.9      | 31.1     | 34.3     | NS       |
| Potassium              | mg/Kg     | 985      | 1300      | 1540     | 1680     | 1320      | 1000     | 1250     | NS       |
| Selenium               | mg/Kg     | 0.53 J   | 0.19 J    | 0.41 J   | 0.21 U   | 0.18 U    | 0.22 U   | 0.19 J   | NS       |
| Silver                 | mg/Kg     | 0.48 U   | 0.85 U    | 1.1 U    | 0.88 U   | 0.55 U    | 0.75 U   | 0.61 U   | NS       |
| Sodium                 | mg/Kg     | 184 J    | 77.3 U    | 137 U    | 102 U    | 85.9 U    | 89.2 J   | 102 J    | NS       |
| Thallium               | mg/Kg     | 0.61 U   | 0.43 U    | 0.86 U   | 0.82 U   | 0.49 U    | 0.85 U   | 0.42 U   | NS       |
| Vanadium               | mg/Kg     | 15.3     | 23.8      | 24.1     | 22.7     | 21.4      | 14.9     | 15.3     | NS       |
| Zinc                   | mg/Kg     | 75.7     | 111       | 98.7     | 90       | 84.5      | 68.4     | 4070     | NS       |
| Cyanide                | mg/Kg     | 0.56 U   | 0.59 U    | 0.85 U   | 0.7 U    | 0.65 U    | 0.66 U   | 0.86 U   | NS       |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION DEPTH(FT.) | SOIL   | SOIL   | SOIL   | SOIL   | SOIL     | SOIL   | SOIL   | SOIL   |
|----------------------------|----------------------------|--------|--------|--------|--------|----------|--------|--------|--------|
|                            |                            | B-38   | B-38   | B-38   | B-38   | B-39     | B-39   | B-39   | B-39   |
|                            |                            | DATE   | DATE   | DATE   | DATE   | DATE     | DATE   | DATE   | DATE   |
|                            |                            | ES ID  | ES ID  | ES ID  | ES ID  | ES ID    | ES ID  | ES ID  | ES ID  |
|                            |                            | LAB ID | LAB ID | LAB ID | LAB ID | LAB ID   | LAB ID | LAB ID | LAB ID |
| UNITS                      |                            |        |        |        |        |          |        |        |        |
| VOCs                       |                            |        |        |        |        |          |        |        |        |
| Chloromethane              | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Bromomethane               | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Vinyl Chloride             | µg/Kg                      | 2 J    | 11 U   | 9 J    | 9 J    | 1300 U   | NS     | 1000   | NS     |
| Chloroethane               | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Methylene Chloride         | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 9 J    | NS     |
| Acetone                    | µg/Kg                      | 140    | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 J   | NS     |
| Carbon Disulfide           | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| 1,1-Dichloroethane         | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 30 J   | NS     |
| 1,1-Dichloroethane         | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| 1,2-Dichloroethane (total) | µg/Kg                      | 7 J    | 48     | 190    | 95     | 38000    | NS     | 7300 J | NS     |
| Chloroform                 | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| 1,2-Dichloroethane         | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 210 J    | NS     | 80 U   | NS     |
| 2-Butanone                 | µg/Kg                      | 22     | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| 1,1,1-Trichloroethane      | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Carbon Tetrachloride       | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Vinyl acetate              | µg/Kg                      | NS     | NS     | NS     | NS     | NS       | NS     | NS     | NS     |
| Bromodichloromethane       | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| 1,2-Dichloropropane        | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| cis-1,3-Dichloropropene    | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Trichloroethene            | µg/Kg                      | 28     | 47     | 150    | 64     | 150000 J | NS     | 700    | NS     |
| Dibromochloromethane       | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| 1,1,2-Trichloroethane      | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Benzene                    | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| trans-1,3-Dichloropropene  | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Bromoform                  | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| 4-Methyl-2-Pentanone       | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| 2-Hexanone                 | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Tetrachloroethene          | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| 1,1,2,2-Tetrachloroethane  | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Toluene                    | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Chlorobenzene              | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Ethylbenzene               | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Styrene                    | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 80 U   | NS     |
| Xylene (total)             | µg/Kg                      | 12 U   | 11 U   | 12 U   | 12 U   | 1300 U   | NS     | 30 J   | NS     |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH(FT.)   | SOIL B-38 2-4 04/28/93 B38-2 183188 | SOIL B-38 4-6 04/28/93 B38-3 183187 | SOIL B-38 6-8 04/28/93 B38-4 183188 | SOIL B-38 4-6 04/28/93 B38-6 183169 | SOIL B-39 0-2 12/15/92 B39-1 176445 | SOIL B-39 0-2 12/15/92 B39-1RE 178445R1 | SOIL B-39 3-4 B39-2 176446 | SOIL B-39 3-4 12/15/92 B39-2RE 178446R1 |        |
|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|----------------------------|---|--------|
| COMPOUND VOCs                | UNITS                               |                                     |                                     | DUP B38-3                           |                                     |   |                            |   |        |
| <b>Semivolatiles</b>         |                                     |                                     |                                     |                                     |                                     |   |                            |   |        |
| Phenol                       | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| bis(2-Chloroethyl) ether     | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2-Chlorophenol               | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 1,3-Dichlorobenzene          | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 1,4-Dichlorobenzene          | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Benzyl alcohol               | NS                                  | NS                                  | NS                                  | NS                                  | NS                                  | NS                                      | NS                         | NS                                      | NS     |
| 1,2-Dichlorobenzene          | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2-Methylphenol               | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 4-Methylphenol               | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| N-Nitroso-dl-n-propylamine   | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Hexachloroethane             | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Nitrobenzene                 | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Isophorone                   | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2-Nitrophenol                | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2,4-Dimethylphenol           | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Benzic acid                  | NS                                  | NS                                  | NS                                  | NS                                  | NS                                  | NS                                      | NS                         | NS                                      | NS     |
| bis(2-Chloroethoxy) methane  | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2,4-Dichlorophenol           | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 1,2,4-Trichlorobenzene       | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Naphthalene                  | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 4-Chloroaniline              | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Hexachlorobutadiene          | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 4-Chloro-3-methylphenol      | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 390 UJ |
| 2-Methylnaphthalene          | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 15 J   |
| Hexachlorocyclopentadiene    | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2,4,6-Trichlorophenol        | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2,4,5-Trichlorophenol        | µg/Kg                               | 980 U                               | 910 U                               | 920 U                               | 880 U                               | 870 UJ                                  | 870 UJ                     | 980 UJ                                  | 980 UJ |
| 2-Chloronaphthalene          | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2-Nitroaniline               | µg/Kg                               | 980 U                               | 910 U                               | 920 U                               | 880 U                               | 870 UJ                                  | 870 UJ                     | 980 UJ                                  | 980 UJ |
| Dimethylphthalate            | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Acenaphthylene               | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2,6-Dinitrotoluene           | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 3-Nitroaniline               | µg/Kg                               | 980 U                               | 910 U                               | 920 U                               | 880 U                               | 870 UJ                                  | 870 UJ                     | 980 UJ                                  | 980 UJ |
| Acenaphthene                 | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2,4-Dinitrophenol            | µg/Kg                               | 980 U                               | 910 U                               | 920 U                               | 880 U                               | 870 UJ                                  | 870 UJ                     | 980 UJ                                  | 980 UJ |
| 4-Nitrophenol                | µg/Kg                               | 980 U                               | 910 U                               | 920 U                               | 880 U                               | 870 UJ                                  | 870 UJ                     | 980 UJ                                  | 980 UJ |
| Dibenzofuran                 | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 2,4-Dinitrotoluene           | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Diethylphthalate             | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 4-Chlorophenyl-phenylether   | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Fluorene                     | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 4-Nitroaniline               | µg/Kg                               | 980 U                               | 910 U                               | 920 U                               | 880 U                               | 870 UJ                                  | 870 UJ                     | 980 UJ                                  | 980 UJ |
| 4,6-Dinitro-2-methylphenol   | µg/Kg                               | 980 U                               | 910 U                               | 920 U                               | 880 U                               | 870 UJ                                  | 870 UJ                     | 980 UJ                                  | 980 UJ |
| N-Nitrosodiphenylamine       | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 4-Bromophenyl-phenylether    | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Hexachlorobenzene            | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Pentachlorophenol            | µg/Kg                               | 980 U                               | 910 U                               | 920 U                               | 880 U                               | 870 UJ                                  | 870 UJ                     | 980 UJ                                  | 980 UJ |
| Phenanthrene                 | µg/Kg                               | 200 J                               | 370 U                               | 380 U                               | 360 U                               | 98 J                                    | 91 J                       | 31 J                                    | 28 J   |
| Anthracene                   | µg/Kg                               | 58 J                                | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 13 J                       | 400 UJ                                  | 400 UJ |
| Carbazole                    | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Di-n-butylphthalate          | µg/Kg                               | 190 J                               | 180 J                               | 110 J                               | 280 J                               | 380 UJ                                  | 80 J                       | 400 UJ                                  | 400 UJ |
| Fluoranthene                 | µg/Kg                               | 530                                 | 370 U                               | 380 U                               | 33 J                                | 110 J                                   | 17 J                       | 400 UJ                                  | 400 UJ |
| Pyrene                       | µg/Kg                               | 460                                 | 370 U                               | 380 U                               | 24 J                                | 140 J                                   | 28 J                       | 400 UJ                                  | 400 UJ |
| Butylbenzylphthalate         | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| 3,3'-Dichlorobenzidine       | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Benzo(a)anthracene           | µg/Kg                               | 260 J                               | 370 U                               | 380 U                               | 360 U                               | 38 J                                    | 51 J                       | 400 UJ                                  | 400 UJ |
| Chrysene                     | µg/Kg                               | 220 J                               | 370 U                               | 380 U                               | 360 U                               | 63 J                                    | 68 J                       | 400 UJ                                  | 400 UJ |
| bis(2-Ethylhexyl)phthalate   | µg/Kg                               | 360 J                               | 520                                 | 240 J                               | 550                                 | 410 UJ                                  | 340 J                      | 800 UJ                                  | 590 UJ |
| Di-n-octylphthalate          | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 23 J                                | 380 UJ                                  | 380 UJ                     | 400 UJ                                  | 400 UJ |
| Benzo(b)fluoranthene         | µg/Kg                               | 260 J                               | 370 U                               | 380 U                               | 360 U                               | 41 J                                    | 50 J                       | 400 UJ                                  | 400 UJ |
| Benzo(k)fluoranthene         | µg/Kg                               | 200 J                               | 370 U                               | 380 U                               | 360 U                               | 40 J                                    | 47 J                       | 400 UJ                                  | 400 UJ |
| Benzo(a)pyrene               | µg/Kg                               | 220 J                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 24 J                       | 400 UJ                                  | 400 UJ |
| Indeno(1,2,3-cd)pyrene       | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Dibenz(a,h)anthracene        | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |
| Benzo(g,h,i)perylene         | µg/Kg                               | 400 U                               | 370 U                               | 380 U                               | 360 U                               | 360 UJ                                  | 360 UJ                     | 400 UJ                                  | 400 UJ |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                | MATRIX LOCATION | SOIL     | SOIL     | SOIL     | SOIL      | SOIL     | SOIL     | SOIL     | SOIL     |  |
|-------------------------|-----------------|----------|----------|----------|-----------|----------|----------|----------|----------|--|
|                         | DEPTH(FT.)      | B-38     | B-38     | B-38     | B-38      | B-39     | B-39     | B-39     | B-39     |  |
|                         | DATE            | 04/28/93 | 04/28/93 | 04/28/93 | 04/28/93  | 12/15/92 | 12/15/92 | 12/15/92 | 12/15/92 |  |
|                         | ES ID           | B38-2    | B38-3    | B38-4    | B38-6     | B39-1    | B39-1RE  | B39-2    | B39-2RE  |  |
|                         | LAB ID          | 183188   | 183187   | 183188   | 183169    | 176445   | 176445R1 | 176446   | 176446R1 |  |
|                         | UNITS           |          |          |          | DUP B38-3 |          |          |          |          |  |
| <b>VOCs</b>             |                 |          |          |          |           |          |          |          |          |  |
| <b>Pesticides, PCBs</b> |                 |          |          |          |           |          |          |          |          |  |
| alpha-BHC               | µg/Kg           | 2 U      | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| beta-BHC                | µg/Kg           | 2 U      | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| delta-BHC               | µg/Kg           | 2 U      | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| gamma-BHC (Lindane)     | µg/Kg           | 2 U      | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| Heptachlor              | µg/Kg           | 2 U      | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| Aldrin                  | µg/Kg           | 2 U      | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| Heptachlor epoxide      | µg/Kg           | 2 U      | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| Endosulfan I            | µg/Kg           | 1.9 J    | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| Dieldrin                | µg/Kg           | 4 U      | 3.7 U    | 3.8 U    | 3.8 U     | 3.6 U    | NS       | 4.1 U    | NS       |  |
| 4,4'-DDE                | µg/Kg           | 3.2 J    | 3.7 U    | 3.8 U    | 3.8 U     | 6.9 J    | NS       | 4.1 U    | NS       |  |
| Endrin                  | µg/Kg           | 4 U      | 3.7 U    | 3.8 U    | 3.8 U     | 3.6 U    | NS       | 4.1 U    | NS       |  |
| Endosulfan II           | µg/Kg           | 4 U      | 3.7 U    | 3.8 U    | 3.8 U     | 3.6 U    | NS       | 4.1 U    | NS       |  |
| 4,4'-DDD                | µg/Kg           | 4 U      | 3.7 U    | 3.8 U    | 3.8 U     | 3.6 U    | NS       | 4.1 U    | NS       |  |
| Endosulfan sulfate      | µg/Kg           | 4 U      | 3.7 U    | 3.8 U    | 3.8 U     | 3.6 U    | NS       | 4.1 U    | NS       |  |
| 4,4'-DDT                | µg/Kg           | 4 U      | 3.7 U    | 3.8 U    | 3.8 U     | 4.1 J    | NS       | 4.1 U    | NS       |  |
| Methoxychlor            | µg/Kg           | 20 U     | 19 U     | 20 U     | 19 U      | 18 U     | NS       | 21 U     | NS       |  |
| Endrin ketone           | µg/Kg           | 3.8 J    | 3.7 U    | 3.8 U    | 3.8 U     | 3.6 U    | NS       | 4.1 U    | NS       |  |
| Endrin aldehyde         | µg/Kg           | 4 U      | 3.7 U    | 3.8 U    | 3.8 U     | 3.6 U    | NS       | 4.1 U    | NS       |  |
| alpha-Chlordane         | µg/Kg           | 1.4 J    | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| gamma-Chlordane         | µg/Kg           | 2 U      | 1.9 U    | 2 U      | 1.9 U     | 1.8 U    | NS       | 2.1 U    | NS       |  |
| Toxaphene               | µg/Kg           | 200 U    | 190 U    | 200 U    | 190 U     | 180 U    | NS       | 210 U    | NS       |  |
| Aroclor-1016            | µg/Kg           | 40 U     | 37 U     | 38 U     | 36 U      | 36 U     | NS       | 41 U     | NS       |  |
| Aroclor-1221            | µg/Kg           | 81 U     | 76 U     | 78 U     | 74 U      | 73 U     | NS       | 82 U     | NS       |  |
| Aroclor-1232            | µg/Kg           | 40 U     | 37 U     | 38 U     | 36 U      | 36 U     | NS       | 41 U     | NS       |  |
| Aroclor-1242            | µg/Kg           | 40 U     | 37 U     | 38 U     | 36 U      | 36 U     | NS       | 41 U     | NS       |  |
| Aroclor-1248            | µg/Kg           | 40 U     | 37 U     | 38 U     | 36 U      | 36 U     | NS       | 41 U     | NS       |  |
| Aroclor-1254            | µg/Kg           | 40 U     | 37 U     | 38 U     | 36 U      | 36 U     | NS       | 41 U     | NS       |  |
| Aroclor-1260            | µg/Kg           | 40 U     | 37 U     | 38 U     | 36 U      | 36 U     | NS       | 41 U     | NS       |  |
| <b>Herbicides</b>       |                 |          |          |          |           |          |          |          |          |  |
| 2,4-D                   | µg/Kg           | 81 U     | 57 U     | 58 U     | 57 U      | 54 U     | NS       | 61 U     | NS       |  |
| 2,4-DB                  | µg/Kg           | 81 U     | 57 U     | 58 U     | 57 U      | 54 U     | NS       | 61 U     | NS       |  |
| 2,4,5-T                 | µg/Kg           | 6.1 U    | 5.7 U    | 5.8 U    | 5.7 U     | 5.4 U    | NS       | 6.1 U    | NS       |  |
| 2,4,5-TP (Silvex)       | µg/Kg           | 6.1 U    | 5.7 U    | 5.8 U    | 5.7 U     | 5.4 U    | NS       | 6.1 U    | NS       |  |
| Daipon                  | µg/Kg           | 150 U    | 140 U    | 140 U    | 140 U     | 130 U    | NS       | 150 U    | NS       |  |
| Dicamba                 | µg/Kg           | 6.1 U    | 5.7 U    | 5.8 U    | 5.7 U     | 5.4 U    | NS       | 6.1 U    | NS       |  |
| Dichloroprop            | µg/Kg           | 61 U     | 57 U     | 58 U     | 57 U      | 54 U     | NS       | 61 U     | NS       |  |
| Dinoseb                 | µg/Kg           | 31 U     | 29 U     | 29 U     | 29 U      | 27 U     | NS       | 30 U     | NS       |  |
| MCPA                    | µg/Kg           | 6100 U   | 5700 U   | 5800 U   | 5700 U    | 5400 U   | NS       | 6100 U   | NS       |  |
| MCPP                    | µg/Kg           | 6100 U   | 5700 U   | 5800 U   | 5700 U    | 5400 U   | NS       | 6100 U   | NS       |  |
| <b>Metals</b>           |                 |          |          |          |           |          |          |          |          |  |
| Aluminum                | mg/Kg           | 13500    | 10800    | 14800    | 10500     | 7410     | NS       | 11100    | NS       |  |
| Antimony                | mg/Kg           | 5.3 UJ   | 5.5 UJ   | 6.3 UJ   | 4.4 UJ    | 6.4 UJ   | NS       | 6.9 UJ   | NS       |  |
| Arsenic                 | mg/Kg           | 4.6      | 2.9      | 3.5      | 4.5       | 2.3      | NS       | 4.4      | NS       |  |
| Barium                  | mg/Kg           | 105      | 47.5     | 51.7     | 48.4      | 88.8 J   | NS       | 78.8 J   | NS       |  |
| Beryllium               | mg/Kg           | 0.69 J   | 0.51 J   | 0.72 J   | 0.53 J    | 0.38 J   | NS       | 0.57 J   | NS       |  |
| Cadmium                 | mg/Kg           | 0.39 U   | 4.4      | 0.47 U   | 0.32 U    | 0.63     | NS       | 0.4 U    | NS       |  |
| Calcium                 | mg/Kg           | 53900    | 64500    | 11500    | 61900     | 139000   | NS       | 124000   | NS       |  |
| Chromium                | mg/Kg           | 25       | 17.8     | 24.6     | 17.3      | 17.4 J   | NS       | 15.9 J   | NS       |  |
| Cobalt                  | mg/Kg           | 12.1     | 10.4     | 14.8     | 10.2      | 7        | NS       | 8.9      | NS       |  |
| Copper                  | mg/Kg           | 31       | 24.5     | 15.6     | 27.5      | 38.4     | NS       | 22.5     | NS       |  |
| Iron                    | mg/Kg           | 27600    | 22900    | 30000    | 21800     | 16900    | NS       | 17700    | NS       |  |
| Lead                    | mg/Kg           | 55.9     | 59.1 J   | 6.2      | 6.2 J     | 165      | NS       | 11       | NS       |  |
| Magnesium               | mg/Kg           | 7270     | 8610     | 6290     | 9180      | 23400    | NS       | 10300    | NS       |  |
| Manganese               | mg/Kg           | 1040     | 488      | 855      | 454       | 436      | NS       | 573      | NS       |  |
| Mercury                 | mg/Kg           | 0.04 U   | 0.02 U   | 0.04 U   | 0.03 U    | 0.1 R    | NS       | 0.08 R   | NS       |  |
| Nickel                  | mg/Kg           | 36.9     | 30       | 39.8     | 30.4      | 24.8     | NS       | 18.4     | NS       |  |
| Potassium               | mg/Kg           | 1340     | 867 J    | 1130 J   | 1020      | 1400     | NS       | 1320     | NS       |  |
| Selenium                | mg/Kg           | 0.54 J   | 0.11 U   | 0.14 U   | 0.19 U    | 1.8      | NS       | 1.6      | NS       |  |
| Silver                  | mg/Kg           | 0.83 U   | 0.86 U   | 1 U      | 0.7 U     | 0.38 U   | NS       | 0.41 U   | NS       |  |
| Sodium                  | mg/Kg           | 257 J    | 226 J    | 119 U    | 245 J     | 225 J    | NS       | 442 J    | NS       |  |
| Thallium                | mg/Kg           | 0.49 U   | 0.34 U   | 0.42 U   | 0.58 U    | 1.6 U    | NS       | 1.7 U    | NS       |  |
| Vanadium                | mg/Kg           | 23.7     | 15.1     | 18.6     | 16.1      | 12.9     | NS       | 18.4     | NS       |  |
| Zinc                    | mg/Kg           | 1110     | 88.5     | 64       | 104       | 3540     | NS       | 88.2 J   | NS       |  |
| Cyanide                 | mg/Kg           | 0.72 U   | 0.66 U   | 0.69 U   | 0.55 U    | 1.4      | NS       | 0.73 U   | NS       |  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX      | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |  |
|----------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|--|
|                            | LOCATION    | B-39     | B-39     | B-39     | BK-1     | BK-2     | BK-2RE   | B-40     | B-40     |  |
|                            | DEPTH (FT.) | 4-6      | 4-6      | 6-8.5    | 0-2      | 0-2      | 0-2      | 0-2      | 2-3.4    |  |
|                            | DATE        | 12/15/92 | 12/15/92 | 12/15/92 | 12/16/92 | 12/16/92 | 12/16/92 | 12/08/92 | 12/08/92 |  |
|                            | ES ID       | B39-3    | B39-3RE  | B39-4    | BK-1     | BK-2     | BK-2RE   | B40-1    | B40-2    |  |
|                            | LAB ID      | 176447   | 176447R1 | 176448   | 176440   | 176441   | 176441R1 | 175786   | 175787   |  |
|                            | UNITS       |          |          |          |          |          |          |          |          |  |
| VOCs                       |             |          |          |          |          |          |          |          |          |  |
| Chloromethane              | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Bromomethane               | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Vinyl Chloride             | µg/Kg       | 160      | NS       | 240 E    | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Chloroethane               | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Methylene Chloride         | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Acetone                    | µg/Kg       | 57 U     | NS       | 21 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Carbon Disulfide           | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 1,1-Dichloroethene         | µg/Kg       | 130      | NS       | 140      | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 1,1-Dichloroethane         | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 1,2-Dichloroethene (total) | µg/Kg       | 1600     | NS       | 1700     | 13 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Chloroform                 | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 1,2-Dichloroethane         | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 2-Butanone                 | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 1,1,1-Trichloroethane      | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Carbon Tetrachloride       | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Vinyl acetate              | µg/Kg       | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |  |
| Bromodichloromethane       | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 1,2-Dichloropropane        | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| cis-1,3-Dichloropropene    | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Trichloroethene            | µg/Kg       | 1000     | NS       | 2200 J   | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Dibromochloromethane       | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 1,1,2-Trichloroethane      | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Benzene                    | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| trans-1,3-Dichloropropene  | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Bromoform                  | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 4-Methyl-2-Pentanone       | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 2-Hexanone                 | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Tetrachloroethene          | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Toluene                    | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Chlorobenzene              | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Ethylbenzene               | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Styrene                    | µg/Kg       | 57 U     | NS       | 12 U     | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |
| Xylene (total)             | µg/Kg       | 57 U     | NS       | 5 J      | 14 U     | 13 U     | NS       | 13 U     | 12 U     |  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH(FT.) DATE ES ID LAB ID | SOIL B-39 12/15/92 B39-3 176447 | SOIL B-39 4-6 12/15/92 B39-3RE 176447R1 | SOIL B-39 6-8.5 12/15/92 B39-4 176448 | SOIL BK-1 0-2 12/16/92 BK-1 176440 | SOIL BK-2 0-2 12/16/92 BK-2 176441 | SOIL BK-2RE 0-2 12/16/92 BK-2RE 176441R1 | SOIL B-40 0-2 12/08/92 B40-1 175786 | SOIL B-40 2-3.4 12/08/92 B40-2 175787 |       |
|--|---------------------------------|---|---------------------------------------|------------------------------------|------------------------------------|--|-------------------------------------|---------------------------------------|-------|
| COMPOUND                                     | UNITS                           |   |                                       |                                    |                                    |  |                                     |                                       |       |
| VOCs   |                                 |   |                                       |                                    |                                    |  |                                     |                                       |       |
| Semivolatiles                                |                                 |   |                                       |                                    |                                    |  |                                     |                                       |       |
| Phenol                                       | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| bis(2-Chloroethyl) ether                     | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2-Chlorophenol                               | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 1,3-Dichlorobenzene                          | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 1,4-Dichlorobenzene                          | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Benzyl alcohol                               | µg/Kg                           | NS                                      | NS                                    | NS                                 | NS                                 | NS                                       | NS                                  | NS                                    | NS    |
| 1,2-Dichlorobenzene                          | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2-Methylphenol                               | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2,2'-oxybis(1-Chloropropane)                 | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 4-Methylphenol                               | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| N-Nitroso-di-n-propylamine                   | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Hexachloroethane                             | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Nitrobenzene                                 | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Isophorone                                   | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2-Nitrophenol                                | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2,4-Dimethylphenol                           | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Benzoic acid                                 | µg/Kg                           | NS                                      | NS                                    | NS                                 | NS                                 | NS                                       | NS                                  | NS                                    | NS    |
| bis(2-Chloroethoxy) methane                  | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2,4-Dichlorophenol                           | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 1,2,4-Trichlorobenzene                       | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Naphthalene                                  | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 4-Chloroaniline                              | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Hexachlorobutadiene                          | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 4-Chloro-3-methylphenol                      | µg/Kg                           | 390 U                                   | 370 U                                 | 420 U                              | 430 UJ                             | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2-Methylnaphthalene                          | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Hexachlorocyclopentadiene                    | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2,4,6-Trichlorophenol                        | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2,4,5-Trichlorophenol                        | µg/Kg                           | 940 U                                   | 940 U                                 | 900 U                              | 1000 U                             | 1000 UJ                                  | 1000 UJ                             | 950 U                                 | 960 U |
| 2-Chloronaphthalene                          | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2-Nitroaniline                               | µg/Kg                           | 940 U                                   | 940 U                                 | 900 U                              | 1000 U                             | 1000 UJ                                  | 1000 UJ                             | 950 U                                 | 960 U |
| Dimethylphthalate                            | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Aceraphthylene                               | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 13 J                                  | 400 U |
| 2,6-Dinitrotoluene                           | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 3-Nitroaniline                               | µg/Kg                           | 940 U                                   | 940 U                                 | 900 U                              | 1000 U                             | 1000 UJ                                  | 1000 UJ                             | 950 U                                 | 960 U |
| Aceraphthene                                 | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2,4-Dinitrophenol                            | µg/Kg                           | 940 U                                   | 940 U                                 | 900 U                              | 1000 U                             | 1000 UJ                                  | 1000 UJ                             | 950 U                                 | 960 U |
| 4-Nitrophenol                                | µg/Kg                           | 940 U                                   | 940 U                                 | 900 U                              | 1000 U                             | 1000 UJ                                  | 1000 UJ                             | 950 U                                 | 960 U |
| Dibenzofuran                                 | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 2,4-Dinitrotoluene                           | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Diethylphthalate                             | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 4-Chlorophenyl-phenylether                   | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Fluorene                                     | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 4-Nitroaniline                               | µg/Kg                           | 940 U                                   | 940 U                                 | 900 U                              | 1000 U                             | 1000 UJ                                  | 1000 UJ                             | 950 U                                 | 960 U |
| 4,6-Dinitro-2-methylphenol                   | µg/Kg                           | 940 U                                   | 940 U                                 | 900 U                              | 1000 U                             | 1000 UJ                                  | 1000 UJ                             | 950 U                                 | 960 U |
| N-Nitrosodiphenylamine                       | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 4-Bromophenyl-phenylether                    | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Hexachlorobenzene                            | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Pentachlorophenol                            | µg/Kg                           | 940 U                                   | 940 U                                 | 900 U                              | 1000 U                             | 1000 UJ                                  | 1000 UJ                             | 950 U                                 | 960 U |
| Phenanthrene                                 | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 29 J                                     | 130 J                               | 53 J                                  | 16 J  |
| Anthracene                                   | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 31 J                                  | 15 J  |
| Carbazole                                    | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 37 J                                  | 390 U |
| Di-n-butylphthalate                          | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 160 J                                 | 240 J |
| Fluoranthene                                 | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 23 J                               | 47 J                                     | 190 J                               | 92 J                                  | 26 J  |
| Pyrene                                       | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 21 J                               | 41 J                                     | 140 J                               | 110 J                                 | 24 J  |
| Butylbenzylphthalate                         | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| 3,3'-Dichlorobenzidine                       | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Benzo(a)anthracene                           | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 21 J                                     | 77 J                                | 46 J                                  | 400 U |
| Chrysene                                     | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 28 J                                     | 80 J                                | 74 J                                  | 400 U |
| bis(2-Ethylhexyl)phthalate                   | µg/Kg                           | 1500                                    | 1500                                  | 540 U                              | 870 U                              | 430 UJ                                   | 280 J                               | 600                                   | 320 J |
| Di-n-octylphthalate                          | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Benzo(b)fluoranthene                         | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 20 J                                     | 66 J                                | 62 J                                  | 400 U |
| Benzo(k)fluoranthene                         | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 20 J                                     | 70 J                                | 65 J                                  | 400 U |
| Benzo(a)pyrene                               | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 48 J                                | 48 J                                  | 400 U |
| Indeno(1,2,3-cd)pyrene                       | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 34 J                                | 36 J                                  | 400 U |
| Dibenz(a,h)anthracene                        | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 390 U                                 | 400 U |
| Benzo(g,h,i)perylene                         | µg/Kg                           | 390 U                                   | 390 U                                 | 370 U                              | 420 U                              | 430 UJ                                   | 430 UJ                              | 37 J                                  | 400 U |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                | MATRIX     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|-------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                         | LOCATION   | B-39     | B-39     | B-39     | BK-1     | BK-2     | BK-2RE   | B-40     | B-40     |
|                         | DEPTH(FT.) | 4-6      | 4-6      | 6-6.5    | 0-2      | 0-2      | 0-2      | 0-2      | 2-3.4    |
|                         | DATE       | 12/15/92 | 12/15/92 | 12/15/92 | 12/16/92 | 12/16/92 | 12/16/92 | 12/08/92 | 12/08/92 |
|                         | ES ID      | B39-3    | B39-3RE  | B39-4    | BK-1     | BK-2     | BK-2RE   | B40-1    | B40-2    |
|                         | LAB ID     | 176447   | 176447R1 | 176448   | 176440   | 176441   | 176441R1 | 175786   | 175787   |
| UNITS                   |            |          |          |          |          |          |          |          |          |
| <b>VOCs</b>             |            |          |          |          |          |          |          |          |          |
| <b>Pesticides/P CBs</b> |            |          |          |          |          |          |          |          |          |
| alpha-BHC               | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 2.2 U    | NS       | 2 U      | 2 U      |
| beta-BHC                | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 2.2 U    | NS       | 2 U      | 2 U      |
| delta-BHC               | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 2.2 U    | NS       | 2 U      | 2 U      |
| gamma-BHC (Lindane)     | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 2.2 U    | NS       | 2 U      | 2 U      |
| Heptachlor              | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 2.2 U    | NS       | 2 U      | 2 U      |
| Aldrin                  | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 2.2 U    | NS       | 2 U      | 2 U      |
| Heptachlor epoxide      | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 2.2 U    | NS       | 2 U      | 2 U      |
| Endosulfan I            | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 2.2 U    | NS       | 2 U      | 2 U      |
| Dieldrin                | µg/Kg      | 3.9 U    | NS       | 3.7 U    | 4.3 U    | 4.3 U    | NS       | 3.9 U    | 3.9 U    |
| 4,4'-DDE                | µg/Kg      | 3.9 U    | NS       | 3.7 U    | 4.3 U    | 2.2 U    | NS       | 3.9 U    | 3.9 U    |
| Endrin                  | µg/Kg      | 3.9 U    | NS       | 3.7 U    | 4.3 U    | 4.3 U    | NS       | 3.9 U    | 3.9 U    |
| Endosulfan II           | µg/Kg      | 3.9 U    | NS       | 3.7 U    | 4.3 U    | 4.3 U    | NS       | 3.9 U    | 3.9 U    |
| 4,4'-DDD                | µg/Kg      | 3.9 U    | NS       | 3.7 U    | 4.3 U    | 4.3 U    | NS       | 3.9 U    | 3.9 U    |
| Endosulfan sulfate      | µg/Kg      | 3.9 U    | NS       | 3.7 U    | 4.3 U    | 4.3 U    | NS       | 3.9 U    | 3.9 U    |
| 4,4'-DDT                | µg/Kg      | 3.9 U    | NS       | 3.7 U    | 4.3 U    | 4.3 U    | NS       | 3.9 U    | 3.9 U    |
| Methoxychlor            | µg/Kg      | 20 U     | NS       | 19 U     | 22 U     | 22 U     | NS       | 20 U     | 20 U     |
| Endrin ketone           | µg/Kg      | 3.9 U    | NS       | 3.7 U    | 4.3 U    | 4.3 U    | NS       | 3.9 U    | 3.9 U    |
| Endrin aldehyde         | µg/Kg      | 3.9 U    | NS       | 3.7 U    | 4.3 U    | 4.3 U    | NS       | 3.9 U    | 3.9 U    |
| alpha-Chlordane         | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 1.3 U    | NS       | 2 U      | 2 U      |
| gamma-Chlordane         | µg/Kg      | 2 U      | NS       | 1.9 U    | 2.2 U    | 2.2 U    | NS       | 2 U      | 2 U      |
| Toxaphene               | µg/Kg      | 200 U    | NS       | 190 U    | 220 U    | 220 U    | NS       | 200 U    | 200 U    |
| Aroclor-1016            | µg/Kg      | 39 U     | NS       | 37 U     | 43 U     | 43 U     | NS       | 39 U     | 39 U     |
| Aroclor-1221            | µg/Kg      | 79 U     | NS       | 76 U     | 88 U     | 88 U     | NS       | 79 U     | 79 U     |
| Aroclor-1232            | µg/Kg      | 39 U     | NS       | 37 U     | 43 U     | 43 U     | NS       | 39 U     | 39 U     |
| Aroclor-1242            | µg/Kg      | 39 U     | NS       | 37 U     | 43 U     | 43 U     | NS       | 39 U     | 39 U     |
| Aroclor-1248            | µg/Kg      | 39 U     | NS       | 37 U     | 43 U     | 43 U     | NS       | 39 U     | 39 U     |
| Aroclor-1254            | µg/Kg      | 39 U     | NS       | 37 U     | 43 U     | 43 U     | NS       | 39 U     | 39 U     |
| Aroclor-1260            | µg/Kg      | 39 U     | NS       | 37 U     | 43 U     | 43 U     | NS       | 39 U     | 39 U     |
| <b>Herbicides</b>       |            |          |          |          |          |          |          |          |          |
| 2,4-D                   | µg/Kg      | 58 U     | NS       | 57 U     | 64 U     | 65 U     | NS       | 59 U     | 60 U     |
| 2,4-DB                  | µg/Kg      | 58 U     | NS       | 57 U     | 64 U     | 65 U     | NS       | 59 U     | 60 U     |
| 2,4,5-T                 | µg/Kg      | 5.8 U    | NS       | 5.7 U    | 6.4 U    | 6.5 U    | NS       | 5.9 U    | 6 U      |
| 2,4,5-TP (Silvex)       | µg/Kg      | 5.8 U    | NS       | 5.7 U    | 6.4 U    | 6.5 U    | NS       | 5.9 U    | 6 U      |
| Dalapon                 | µg/Kg      | 140 U    | NS       | 140 U    | 150 U    | 160 U    | NS       | 140 U    | 144 U    |
| Dicamba                 | µg/Kg      | 5.8 U    | NS       | 5.7 U    | 6.4 U    | 6.5 U    | NS       | 5.9 U    | 6 U      |
| Dichloroprop            | µg/Kg      | 58 U     | NS       | 57 U     | 64 U     | 65 U     | NS       | 59 U     | 60 U     |
| Dinoseb                 | µg/Kg      | 29 U     | NS       | 28 U     | 32 U     | 33 U     | NS       | 30 U     | 30 U     |
| MCFA                    | µg/Kg      | 5600 U   | NS       | 5700 U   | 6400 U   | 6500 U   | NS       | 5900 U   | 6000 U   |
| MCPD                    | µg/Kg      | 5600 U   | NS       | 5700 U   | 6400 U   | 6500 U   | NS       | 5900 U   | 6000 U   |
| <b>Metals</b>           |            |          |          |          |          |          |          |          |          |
| Aluminum                | mg/Kg      | 11000    | NS       | 10800    | 19400    | 14400    | NS       | 16900    | 14900    |
| Antimony                | mg/Kg      | 6.5 UJ   | NS       | 7.8 UJ   | 7.9 U    | 7.2 U    | NS       | 9.9 UJ   | 10.5 UJ  |
| Arsenic                 | mg/Kg      | 2.2      | NS       | 3.4      | 3        | 2.7      | NS       | 4.6      | 5        |
| Barium                  | mg/Kg      | 54.1 J   | NS       | 59 J     | 159      | 108      | NS       | 73.1     | 70.3     |
| Beryllium               | mg/Kg      | 0.47 J   | NS       | 0.45 J   | 1.1      | 0.81     | NS       | 0.7 J    | 0.69 J   |
| Cadmium                 | mg/Kg      | 0.37 U   | NS       | 0.45 U   | 0.45 U   | 0.41 U   | NS       | 0.57 U   | 0.6 U    |
| Calcium                 | mg/Kg      | 102000   | NS       | 54700    | 4590     | 22500    | NS       | 3500     | 58900    |
| Chromium                | mg/Kg      | 16.6 J   | NS       | 17.9 J   | 30       | 22.3     | NS       | 27       | 24.2     |
| Cobalt                  | mg/Kg      | 9.2      | NS       | 10.2     | 14.4     | 12.3     | NS       | 11.6     | 12.8     |
| Copper                  | mg/Kg      | 20.9     | NS       | 23.2     | 26.9     | 18.8     | NS       | 16.9     | 25.4     |
| Iron                    | mg/Kg      | 20800    | NS       | 21100    | 38600    | 26800    | NS       | 32700    | 29200    |
| Lead                    | mg/Kg      | 19       | NS       | 17       | 15.8     | 18.9     | NS       | 17.3     | 12.1     |
| Magnesium               | mg/Kg      | 8430     | NS       | 17500    | 5980     | 7910     | NS       | 5570     | 8890     |
| Manganese               | mg/Kg      | 488      | NS       | 758      | 2380     | 800      | NS       | 723      | 623      |
| Mercury                 | mg/Kg      | 0.08 R   | NS       | 0.08 R   | 0.13 J   | 0.11     | NS       | 0.09 J   | 0.03 J   |
| Nickel                  | mg/Kg      | 27.4     | NS       | 27.2     | 47.7     | 31       | NS       | 32.9     | 38.8     |
| Potassium               | mg/Kg      | 1140     | NS       | 1200     | 1720     | 1210     | NS       | 1060     | 1420     |
| Selenium                | mg/Kg      | 0.26 J   | NS       | 0.5 J    | 0.73 J   | 0.94     | NS       | 0.45 J   | 0.56 J   |
| Silver                  | mg/Kg      | 0.38 U   | NS       | 0.48 U   | 0.47 U   | 0.43 U   | NS       | 0.59 U   | 0.62 U   |
| Sodium                  | mg/Kg      | 407 J    | NS       | 342 J    | 49.1 J   | 61.1 J   | NS       | 54.8 U   | 110 J    |
| Thallium                | mg/Kg      | 1.7 U    | NS       | 0.34 U   | 0.42 U   | 0.38 U   | NS       | 0.5 U    | 0.4 U    |
| Vanadium                | mg/Kg      | 15.9     | NS       | 17.2     | 28       | 22.4     | NS       | 24.3     | 21.4     |
| Zinc                    | mg/Kg      | 108 J    | NS       | 434      | 98.6     | 63.7     | NS       | 83.1     | 99.8     |
| Cyanide                 | mg/Kg      | 0.66 U   | NS       | 0.85 U   | 0.57 U   | 0.61 U   | NS       | 0.57 U   | 0.58 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|----------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                            | LOCATION   | B-40     | B-40     | B-41     | B-41     | B-41     | B-41     | B-41     | B-41     |
| VOCs                       | DEPTH(FT.) | 6-8      | 8-10     | 0-2      | 0-2      | 2-4      | 2-4      | 5.5-6.5  | 5.5-6.5  |
|                            | DATE       | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 |
|                            | ES ID      | B40-4    | B40-5    | B41-1    | B41-1RE  | B41-2    | B41-2RE  | B41-3    | B41-3RE  |
|                            | LAB ID     | 175789   | 175790   | 176001   | 176001R1 | 176002   | 176002R1 | 176003   | 176003R1 |
|                            | UNITS      |          |          |          |          |          |          |          |          |
| Chloromethane              | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Bromomethane               | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Vinyl Chloride             | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Chloroethane               | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Methylene Chloride         | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Acetone                    | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Carbon Disulfide           | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 1,1-Dichloroethane         | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 1,1-Dichloroethane         | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 1,2-Dichloroethane (total) | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Chloroform                 | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 1,2-Dichloroethane         | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 2-Butanone                 | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 1,1,1-Trichloroethane      | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Carbon Tetrachloride       | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Vinyl acetate              | µg/Kg      | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Bromodichloromethane       | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 1,2-Dichloropropane        | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| cis-1,3-Dichloropropene    | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Trichloroethene            | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Dibromochloromethane       | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 1,1,2-Trichloroethane      | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Benzene                    | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| trans-1,3-Dichloropropene  | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Bromoform                  | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 4-Methyl-2-Pentanone       | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 2-Hexanone                 | µg/Kg      | 11 U     | 12 U     | 11 J     | NS       | 12 U     | NS       | 11 U     | NS       |
| Tetrachloroethene          | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| 1,1,2,2-Tetrachloroethane  | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Toluene                    | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Chlorobenzene              | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Ethylbenzene               | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Styrene                    | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |
| Xylene (total)             | µg/Kg      | 11 U     | 12 U     | 11 U     | NS       | 12 U     | NS       | 11 U     | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH (FT.)  | SOIL B-40 6-8 DATE 12/08/92 ES ID B40-4 LAB ID 175789 | SOIL B-40 8-10 DATE 12/08/92 ES ID B40-5 LAB ID 175790 | SOIL B-41 0-2 DATE 12/08/92 ES ID B41-1 LAB ID 176001 | SOIL B-41 0-2 DATE 12/08/92 ES ID B41-1RE LAB ID 176001R1 | SOIL B-41 2-4 DATE 12/08/92 ES ID B41-2 LAB ID 176002 | SOIL B-41 2-4 DATE 12/08/92 ES ID B41-2RE LAB ID 176002R1 | SOIL B-41 5.5-6.5 DATE 12/08/92 ES ID B41-3 LAB ID 176003 | SOIL B-41 5.5-6.5 DATE 12/08/92 ES ID B41-3RE LAB ID 176003R1 |
|------------------------------|---|--|---|---|---|---|---|---|
| COMPOUND                     | UNITS   |  |   |   |   |   |   |   |
| VOCs                         |   |  |   |   |   |   |   |   |
| Semivolatiles                |   |  |   |   |   |   |   |   |
| Phenol                       | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| bis(2-Chloroethyl) ether     | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2-Chlorophenol               | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 1,3-Dichlorobenzene          | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 1,4-Dichlorobenzene          | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Benzyl alcohol               | NS  | NS   | NS  | NS  | NS  | NS  | NS  | NS  |
| 1,2-Dichlorobenzene          | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2-Methylphenol               | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 4-Methylphenol               | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| N-Nitroso-di-n-propylamine   | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Hexachloroethane             | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Nitrobenzene                 | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Isophorone                   | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2-Nitrophenol                | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2,4-Dimethylphenol           | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Benzic acid                  | NS  | NS   | NS  | NS  | NS  | NS  | NS  | NS  |
| bis(2-Chloroethoxy) methane  | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2,4-Dichlorophenol           | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 1,2,4-Trichlorobenzene       | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Naphthalene                  | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 39 J  | 400 UJ  | 400 UJ  | 390 UJ  |
| 4-Chloroaniline              | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Hexachlorobutadiene          | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 4-Chloro-3-methylphenol      | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2-Methylnaphthalene          | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 21 J  | 400 UJ  | 400 UJ  | 390 UJ  |
| Hexachlorocyclopentadiene    | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2,4,6-Trichlorophenol        | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2,4,5-Trichlorophenol        | µg/Kg   | 890 U  | 930 U   | 910 UJ  | 920 UJ  | 960 UJ  | 960 UJ  | 950 UJ  |
| 2-Chloronaphthalene          | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2-Nitroaniline               | µg/Kg   | 890 U  | 930 U   | 910 UJ  | 920 UJ  | 960 UJ  | 960 UJ  | 950 UJ  |
| Dimethylphthalate            | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Acenaphthylene               | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 81 J  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2,6-Dinitrotoluene           | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 3-Nitroaniline               | µg/Kg   | 890 U  | 930 U   | 910 UJ  | 920 UJ  | 960 UJ  | 960 UJ  | 950 UJ  |
| Acenaphthene                 | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 72 J  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2,4-Dinitrophenol            | µg/Kg   | 890 U  | 930 U   | 910 UJ  | 920 UJ  | 960 UJ  | 960 UJ  | 950 UJ  |
| 4-Nitrophenol                | µg/Kg   | 890 U  | 930 U   | 910 UJ  | 920 UJ  | 960 UJ  | 960 UJ  | 950 UJ  |
| Dibenzofuran                 | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 26 J  | 400 UJ  | 400 UJ  | 390 UJ  |
| 2,4-Dinitrotoluene           | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Diethylphthalate             | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 4-Chlorophenyl-phenylether   | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Fluorene                     | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 54 J  | 400 UJ  | 400 UJ  | 390 UJ  |
| 4-Nitroaniline               | µg/Kg   | 890 U  | 930 U   | 910 UJ  | 920 UJ  | 960 UJ  | 960 UJ  | 950 UJ  |
| 4,6-Dinitro-2-methylphenol   | µg/Kg   | 890 U  | 930 U   | 910 UJ  | 920 UJ  | 960 UJ  | 960 UJ  | 950 UJ  |
| N-Nitrosodiphenylamine       | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 4-Bromophenyl-phenylether    | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Hexachlorobenzene            | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Pentachlorophenol            | µg/Kg   | 890 U  | 930 U   | 910 UJ  | 920 UJ  | 960 UJ  | 960 UJ  | 950 UJ  |
| Phenanthrene                 | µg/Kg   | 360 U  | 360 U   | 130 J   | 780 J   | 40 J  | 80 J  | 390 UJ  |
| Anthracene                   | µg/Kg   | 360 U  | 360 U   | 17 J  | 150 J   | 400 UJ  | 400 UJ  | 390 UJ  |
| Carbazole                    | µg/Kg   | 360 U  | 360 U   | 110 J   | 490 J   | 400 UJ  | 400 UJ  | 390 UJ  |
| Di-n-butylphthalate          | µg/Kg   | 360 J  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Fluoranthene                 | µg/Kg   | 360 U  | 360 U   | 280 J   | 1300 J  | 78 J  | 120 J   | 390 UJ  |
| Pyrene                       | µg/Kg   | 360 U  | 360 U   | 220 J   | 1300 J  | 63 J  | 94 J  | 390 UJ  |
| Butylbenzylphthalate         | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| 3,3'-Dichlorobenzidine       | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Benzo(a)anthracene           | µg/Kg   | 360 U  | 360 U   | 93 J  | 590 J   | 27 J  | 45 J  | 390 UJ  |
| Chrysene                     | µg/Kg   | 360 U  | 360 U   | 150 J   | 850 J   | 45 J  | 85 J  | 390 UJ  |
| bis(2-Ethylhexyl)phthalate   | µg/Kg   | 280 J  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 690 J   |
| Di-n-octylphthalate          | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 360 UJ  | 400 UJ  | 400 UJ  | 390 UJ  |
| Benzo(b)fluoranthene         | µg/Kg   | 360 U  | 360 U   | 160 J   | 1100 J  | 43 J  | 63 J  | 390 UJ  |
| Benzo(k)fluoranthene         | µg/Kg   | 360 U  | 360 U   | 150 J   | 670 J   | 45 J  | 85 J  | 390 UJ  |
| Benzo(a)pyrene               | µg/Kg   | 360 U  | 360 U   | 48 J  | 650 J   | 15 J  | 48 J  | 390 UJ  |
| Indeno(1,2,3-cd)pyrene       | µg/Kg   | 360 U  | 360 U   | 83 J  | 290 J   | 30 J  | 45 J  | 390 UJ  |
| Dibenz(a,h)anthracene        | µg/Kg   | 360 U  | 360 U   | 360 UJ  | 120 J   | 400 UJ  | 400 UJ  | 390 UJ  |
| Benzo(g,h,i)perylene         | µg/Kg   | 360 U  | 360 U   | 74 J  | 280 J   | 26 J  | 400 UJ  | 390 UJ  |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| DEPTH(FT.)             | B-40     | B-40     | B-41     | B-41     | B-41     | B-41     | B-41     | B-41     | B-41     |
| DATE                   | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 | 12/08/92 |
| ES ID                  | B40-4    | B40-5    | B41-1    | B41-1RE  | B41-2    | B41-2RE  | B41-3    | B41-3RE  | B41-3RE  |
| LAB ID                 | 175789   | 175790   | 176001   | 176001R1 | 176002   | 176002R1 | 176003   | 176003R1 | 176003R1 |
| UNITS                  |          |          |          |          |          |          |          |          |          |
| <b>VOCs</b>            |          |          |          |          |          |          |          |          |          |
| <b>Pesticides/PCBs</b> |          |          |          |          |          |          |          |          |          |
| alpha-BHC              | µg/Kg    | 1.9 U    | 2 U      | 19 U     | NS       | 20 U     | NS       | 10 U     | NS       |
| beta-BHC               | µg/Kg    | 1.9 U    | 2 U      | 19 U     | NS       | 20 U     | NS       | 10 U     | NS       |
| delta-BHC              | µg/Kg    | 1.9 U    | 2 U      | 19 U     | NS       | 20 U     | NS       | 10 U     | NS       |
| gamma-BHC (Lindane)    | µg/Kg    | 1.9 U    | 2 U      | 19 U     | NS       | 20 U     | NS       | 10 U     | NS       |
| Heptachlor             | µg/Kg    | 1.9 U    | 2 U      | 19 U     | NS       | 20 U     | NS       | 10 U     | NS       |
| Aldrin                 | µg/Kg    | 1.9 U    | 2 U      | 19 U     | NS       | 20 U     | NS       | 10 U     | NS       |
| Heptachlor epoxide     | µg/Kg    | 1.9 U    | 2 U      | 19 U     | NS       | 20 U     | NS       | 10 U     | NS       |
| Endosulfan I           | µg/Kg    | 1.9 U    | 2 U      | 19 U     | NS       | 20 U     | NS       | 10 U     | NS       |
| Dieldrin               | µg/Kg    | 3.7 U    | 3.8 U    | 37 U     | NS       | 39 U     | NS       | 20 U     | NS       |
| 4,4'-DDE               | µg/Kg    | 3.7 U    | 3.8 U    | 91 J     | NS       | 66       | NS       | 74       | NS       |
| Endrin                 | µg/Kg    | 3.7 U    | 3.8 U    | 37 U     | NS       | 39 U     | NS       | 20 U     | NS       |
| Endosulfan II          | µg/Kg    | 3.7 U    | 3.8 U    | 37 U     | NS       | 39 U     | NS       | 20 U     | NS       |
| 4,4'-DDD               | µg/Kg    | 3.7 U    | 3.8 U    | 260 J    | NS       | 350      | NS       | 170      | NS       |
| Endosulfan sulfate     | µg/Kg    | 3.7 U    | 3.8 U    | 37 U     | NS       | 39 U     | NS       | 20 U     | NS       |
| 4,4'-DDT               | µg/Kg    | 3.7 U    | 3.8 U    | 39 J     | NS       | 27 J     | NS       | 29       | NS       |
| Methoxychlor           | µg/Kg    | 19 U     | 20 U     | 190 U    | NS       | 200 U    | NS       | 100 U    | NS       |
| Endrin ketone          | µg/Kg    | 3.7 U    | 3.8 U    | 37 U     | NS       | 39 U     | NS       | 20 U     | NS       |
| Endrin aldehyde        | µg/Kg    | 3.7 U    | 3.8 U    | 37 U     | NS       | 39 U     | NS       | 20 U     | NS       |
| alpha-Chlordane        | µg/Kg    | 1.9 U    | 2 U      | 12 J     | NS       | 9.7 J    | NS       | 14 J     | NS       |
| gamma-Chlordane        | µg/Kg    | 1.9 U    | 2 U      | 11 J     | NS       | 11 J     | NS       | 15       | NS       |
| Toxaphene              | µg/Kg    | 190 U    | 200 U    | 1900 U   | NS       | 2000 U   | NS       | 1000 U   | NS       |
| Aroclor-1016           | µg/Kg    | 37 U     | 38 U     | 370 U    | NS       | 390 U    | NS       | 200 U    | NS       |
| Aroclor-1221           | µg/Kg    | 74 U     | 76 U     | 760 U    | NS       | 790 U    | NS       | 400 U    | NS       |
| Aroclor-1232           | µg/Kg    | 37 U     | 38 U     | 370 U    | NS       | 390 U    | NS       | 200 U    | NS       |
| Aroclor-1242           | µg/Kg    | 37 U     | 38 U     | 370 U    | NS       | 390 U    | NS       | 200 U    | NS       |
| Aroclor-1248           | µg/Kg    | 37 U     | 38 U     | 370 U    | NS       | 390 U    | NS       | 200 U    | NS       |
| Aroclor-1254           | µg/Kg    | 37 U     | 38 U     | 370 U    | NS       | 390 U    | NS       | 200 U    | NS       |
| Aroclor-1260           | µg/Kg    | 37 U     | 38 U     | 370 U    | NS       | 390 U    | NS       | 200 U    | NS       |
| <b>Herbicides</b>      |          |          |          |          |          |          |          |          |          |
| 2,4-D                  | µg/Kg    | 58 U     | 59 U     | 58 U     | NS       | 60 U     | NS       | 60 U     | NS       |
| 2,4-DB                 | µg/Kg    | 58 U     | 59 U     | 58 U     | NS       | 60 U     | NS       | 60 U     | NS       |
| 2,4,5-T                | µg/Kg    | 5.8 U    | 5.9 U    | 5.8 U    | NS       | 6 U      | NS       | 6 U      | NS       |
| 2,4,5-TP (Silvex)      | µg/Kg    | 5.8 U    | 5.9 U    | 5.8 U    | NS       | 6 U      | NS       | 6 U      | NS       |
| Dalapon                | µg/Kg    | 130 U    | 140 U    | 140 U    | NS       | 140 U    | NS       | 140 U    | NS       |
| Dicamba                | µg/Kg    | 5.8 U    | 5.9 U    | 5.8 U    | NS       | 6 U      | NS       | 6 U      | NS       |
| Dichloroprop           | µg/Kg    | 58 U     | 59 U     | 58 U     | NS       | 60 U     | NS       | 60 U     | NS       |
| Dinoseb                | µg/Kg    | 28 U     | 29 U     | 28 U     | NS       | 30 U     | NS       | 30 U     | NS       |
| MCPA                   | µg/Kg    | 5600 U   | 5900 U   | 5600 U   | NS       | 6000 U   | NS       | 6000 U   | NS       |
| MCPP                   | µg/Kg    | 5600 U   | 5900 U   | 5600 U   | NS       | 6000 U   | NS       | 6000 U   | NS       |
| <b>Metals</b>          |          |          |          |          |          |          |          |          |          |
| Aluminum               | mg/Kg    | 11600    | 9270     | 10100    | NS       | 12000    | NS       | 18700    | NS       |
| Antimony               | mg/Kg    | 11.6 UJ  | 12.2 UJ  | 9.9 UJ   | NS       | 8.8 UJ   | NS       | 6.7 UJ   | NS       |
| Arsenic                | mg/Kg    | 4.1      | 4.5      | 4.9      | NS       | 3.2      | NS       | 4.4      | NS       |
| Barium                 | mg/Kg    | 62.7     | 43.3 J   | 68.9     | NS       | 87.6     | NS       | 105      | NS       |
| Beryllium              | mg/Kg    | 0.51 J   | 0.49 J   | 0.57 J   | NS       | 0.55 J   | NS       | 0.64     | NS       |
| Cadmium                | mg/Kg    | 0.67 U   | 0.7 U    | 0.7 J    | NS       | 0.5 U    | NS       | 0.38 U   | NS       |
| Calcium                | mg/Kg    | 50500    | 57300    | 89100    | NS       | 42500    | NS       | 7920     | NS       |
| Chromium               | mg/Kg    | 19.9     | 16.3     | 19       | NS       | 19.4     | NS       | 30.3     | NS       |
| Cobalt                 | mg/Kg    | 10.4 J   | 8.5 J    | 9.7      | NS       | 8.2      | NS       | 17       | NS       |
| Copper                 | mg/Kg    | 25.4     | 25.1     | 29.2     | NS       | 32.2     | NS       | 25.1     | NS       |
| Iron                   | mg/Kg    | 25200    | 22300    | 20000    | NS       | 20000    | NS       | 40900    | NS       |
| Lead                   | mg/Kg    | 14.2     | 8.9      | 81.4     | NS       | 52.5     | NS       | 26.9     | NS       |
| Magnesium              | mg/Kg    | 9810     | 6790     | 16200    | NS       | 8600     | NS       | 7250     | NS       |
| Manganese              | mg/Kg    | 523      | 590      | 482      | NS       | 299      | NS       | 528      | NS       |
| Mercury                | mg/Kg    | 0.03 U   | 0.03 J   | 0.04 J   | NS       | 0.06 J   | NS       | 0.06 J   | NS       |
| Nickel                 | mg/Kg    | 34.5     | 26.2     | 29       | NS       | 28.5     | NS       | 45.9     | NS       |
| Potassium              | mg/Kg    | 1290     | 941 J    | 1200     | NS       | 1320     | NS       | 1140     | NS       |
| Selenium               | mg/Kg    | 0.67 J   | 0.45 J   | 0.58 J   | NS       | 0.82     | NS       | 0.54 J   | NS       |
| Silver                 | mg/Kg    | 0.69 U   | 0.72 U   | 0.59 U   | NS       | 0.52 U   | NS       | 0.4 U    | NS       |
| Sodium                 | mg/Kg    | 78.5 J   | 67.2 U   | 108 J    | NS       | 91.3 J   | NS       | 40.3 J   | NS       |
| Thallium               | mg/Kg    | 0.45 U   | 0.38 U   | 0.33 U   | NS       | 0.36 U   | NS       | 0.31 U   | NS       |
| Vanadium               | mg/Kg    | 17.3     | 13.8     | 27       | NS       | 23.6     | NS       | 26.4     | NS       |
| Zinc                   | mg/Kg    | 78.9     | 96.3     | 139      | NS       | 223      | NS       | 123      | NS       |
| Cyanide                | mg/Kg    | 0.53 U   | 0.47 U   | 0.69 U   | NS       | 0.7 U    | NS       | 0.66 U   | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|----------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                            | LOCATION   | B-41     | B-41     | B-42     | B-42     | B-42     | B-42     | B-42     | B-42     |
| VOCs                       | DEPTH(FT.) | 6.5-8    | 6.5-8    | 0-2      | 0-2      | 2-4      | 2-4      | 4-6      | 4-6      |
|                            | DATE       | 12/09/92 | 12/08/92 | 12/09/92 | 12/09/92 | 12/09/92 | 12/09/92 | 12/09/92 | 12/09/92 |
|                            | ES ID      | B41-4    | B41-4RE  | B42-1    | B42-1RE  | B42-2    | B42-2RE  | B42-3    | B42-3RE  |
|                            | LAB ID     | 176004   | 176004R1 | 176005   | 176005R1 | 176006   | 176006R1 | 176007   | 176007R1 |
|                            | UNITS      |          |          |          |          |          |          |          |          |
| Chloromethane              | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Bromomethane               | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Vinyl Chloride             | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Chloroethane               | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Methylene Chloride         | µg/Kg      | 11 U     | NS       | 5 J      | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Acetone                    | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Carbon Disulfide           | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 1,1-Dichloroethene         | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 1,1-Dichloroethane         | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 1,2-Dichloroethene (total) | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Chloroform                 | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 1,2-Dichloroethane         | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 2-Butanone                 | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 1,1,1-Trichloroethane      | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Carbon Tetrachloride       | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Vinyl acetate              | µg/Kg      | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Bromodichloromethane       | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 1,2-Dichloropropane        | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| cis-1,3-Dichloropropene    | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Trichloroethene            | µg/Kg      | 11 U     | NS       | 90 J     | 90 J     | 170 J    | 230 J    | 38       | NS       |
| Dibromochloromethane       | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 1,1,2-Trichloroethane      | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Benzene                    | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 2 J      | 3 J      | 15 U     | NS       |
| trans-1,3-Dichloropropene  | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Bromoform                  | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 4-Methyl-2-Pentanone       | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 2-Hexanone                 | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Tetrachloroethene          | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| 1,1,2,2-Tetrachloroethane  | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Toluene                    | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Chlorobenzene              | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Ethylbenzene               | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Styrene                    | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |
| Xylene (total)             | µg/Kg      | 11 U     | NS       | 11 UJ    | 11 UJ    | 12 UJ    | 12 UJ    | 15 U     | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL B-41 | SOIL B-41 | SOIL B-42 | SOIL B-42 | SOIL B-42 | SOIL B-42 | SOIL B-42 | SOIL B-42 | SOIL B-42 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DEPTH(FT.)                   | 6.5-8     | 6.5-8     | 0-2       | 0-2       | 2-4       | 2-4       | 2-4       | 4-6       | 4-6       |
| DATE                         | 12/09/92  | 12/08/92  | 12/09/92  | 12/09/92  | 12/09/92  | 12/09/92  | 12/09/92  | 12/09/92  | 12/09/92  |
| ES ID                        | B41-4     | B41-4RE   | B42-1     | B42-1RE   | B42-2     | B42-2RE   | B42-2RE   | B42-3     | B42-3RE   |
| LAB ID                       | 176004    | 176004R1  | 176005    | 176005R1  | 176006    | 176006R1  | 176006R1  | 176007    | 176007R1  |
| COMPOUND                     | UNITS     | UNITS     | UNITS     | UNITS     | UNITS     | UNITS     | UNITS     | UNITS     | UNITS     |
| COMPOUND                     |           |           |           |           |           |           |           |           |           |
| VOCs                         |           |           |           |           |           |           |           |           |           |
| SemiVolatiles                |           |           |           |           |           |           |           |           |           |
| Phenol                       | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| bis(2-Chloroethyl) ether     | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2-Chlorophenol               | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 1,3-Dichlorobenzene          | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 1,4-Dichlorobenzene          | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Benzyl alcohol               | µg/Kg     | NS        | NS        | NS        | NS        | NS        | NS        | NS        | NS        |
| 1,2-Dichlorobenzene          | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2-Methylphenol               | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 4-Methylphenol               | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| N-Nitroso-dl-n-propylamine   | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Hexachloroethane             | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Nitrobenzene                 | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Isophorone                   | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2-Nitrophenol                | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2,4-Dimethylphenol           | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Benzoic acid                 | µg/Kg     | NS        | NS        | NS        | NS        | NS        | NS        | NS        | NS        |
| bis(2-Chloroethoxy) methane  | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2,4-Dichlorophenol           | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 1,2,4-Trichlorobenzene       | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Naphthalene                  | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 44 J      | 120 J     | 150 J     | 410 UJ    | 410 UJ    |
| 4-Chloroaniline              | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Hexachlorobutadiene          | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 4-Chloro-3-methylphenol      | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2-Methylnaphthalene          | µg/Kg     | 360 UJ    | 360 UJ    | 14 J      | 15 J      | 40 J      | 71 J      | 410 UJ    | 410 UJ    |
| Hexachlorocyclopentadiene    | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2,4,6-Trichlorophenol        | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2,4,5-Trichlorophenol        | µg/Kg     | 860 UJ    | 870 UJ    | 920 UJ    | 920 UJ    | 950 UJ    | 950 UJ    | 990 UJ    | 990 UJ    |
| 2-Chloronaphthalene          | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 2-Nitroaniline               | µg/Kg     | 860 UJ    | 870 UJ    | 920 UJ    | 920 UJ    | 950 UJ    | 950 UJ    | 990 UJ    | 990 UJ    |
| Dimethylphthalate            | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Acenaphthylene               | µg/Kg     | 360 UJ    | 360 UJ    | 41 J      | 44 J      | 390 UJ    | 23 J      | 410 UJ    | 410 UJ    |
| 2,6-Dinitrotoluene           | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 3-Nitroaniline               | µg/Kg     | 860 UJ    | 870 UJ    | 920 UJ    | 920 UJ    | 950 UJ    | 950 UJ    | 990 UJ    | 990 UJ    |
| Acenaphthene                 | µg/Kg     | 360 UJ    | 360 UJ    | 54 J      | 48 J      | 240 J     | 390 J     | 410 UJ    | 410 UJ    |
| 2,4-Dinitrophenol            | µg/Kg     | 860 UJ    | 870 UJ    | 920 UJ    | 920 UJ    | 950 UJ    | 950 UJ    | 990 UJ    | 990 UJ    |
| 4-Nitrophenol                | µg/Kg     | 860 UJ    | 870 UJ    | 920 UJ    | 920 UJ    | 950 UJ    | 950 UJ    | 990 UJ    | 990 UJ    |
| Dibenzofuran                 | µg/Kg     | 360 UJ    | 360 UJ    | 32 J      | 25 J      | 110 J     | 180 J     | 410 UJ    | 410 UJ    |
| 2,4-Dinitrotoluene           | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Diethylphthalate             | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 4-Chlorophenyl-phenylether   | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Fluorene                     | µg/Kg     | 360 UJ    | 360 UJ    | 49 J      | 39 J      | 200 J     | 320 J     | 410 UJ    | 410 UJ    |
| 4-Nitroaniline               | µg/Kg     | 860 UJ    | 870 UJ    | 920 UJ    | 920 UJ    | 950 UJ    | 950 UJ    | 990 UJ    | 990 UJ    |
| 4,6-Dinitro-2-methylphenol   | µg/Kg     | 860 UJ    | 870 UJ    | 920 UJ    | 920 UJ    | 950 UJ    | 950 UJ    | 990 UJ    | 990 UJ    |
| N-Nitrosodiphenylamine       | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 4-Bromophenyl-phenylether    | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Hexachlorobenzene            | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Pentachlorophenol            | µg/Kg     | 860 UJ    | 870 UJ    | 920 UJ    | 920 UJ    | 950 UJ    | 950 UJ    | 990 UJ    | 990 UJ    |
| Phenanthrene                 | µg/Kg     | 360 UJ    | 360 UJ    | 570 J     | 530 J     | 1900 J    | 2200 J    | 22 J      | 76 J      |
| Anthracene                   | µg/Kg     | 360 UJ    | 360 UJ    | 120 J     | 130 J     | 310 J     | 560 J     | 410 UJ    | 19 J      |
| Carbazole                    | µg/Kg     | 360 UJ    | 360 UJ    | 370 J     | 280 J     | 1000 J    | 910 J     | 410 UJ    | 410 UJ    |
| Di-n-butylphthalate          | µg/Kg     | 110 J     | 430 J     | 1100 J    | 820 J     | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Fluoranthene                 | µg/Kg     | 360 UJ    | 360 UJ    | 1100 J    | 920 J     | 2700 J    | 2800 J    | 32 J      | 100 J     |
| Pyrene                       | µg/Kg     | 360 UJ    | 360 UJ    | 810 J     | 890 J     | 2100 J    | 2400 J    | 35 J      | 77 J      |
| Butylbenzylphthalate         | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| 3,3'-Dichlorobenzidine       | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Benzo(a)anthracene           | µg/Kg     | 360 UJ    | 360 UJ    | 490 J     | 560 J     | 1100 J    | 1500 J    | 14 J      | 36 J      |
| Chrysene                     | µg/Kg     | 360 UJ    | 360 UJ    | 800 J     | 710 J     | 1300 J    | 1600 J    | 22 J      | 49 J      |
| bis(2-Ethylhexyl)phthalate   | µg/Kg     | 360 J     | 1100 J    | 2200 J    | 1100 J    | 600 J     | 550 J     | 260 UJ    | 370 J     |
| Di-n-octylphthalate          | µg/Kg     | 360 UJ    | 360 UJ    | 360 UJ    | 360 UJ    | 390 UJ    | 390 UJ    | 410 UJ    | 410 UJ    |
| Benzo(b)fluoranthene         | µg/Kg     | 360 UJ    | 360 UJ    | 770 J     | 800 J     | 1400 J    | 1700 J    | 27 J      | 59 J      |
| Benzo(k)fluoranthene         | µg/Kg     | 360 UJ    | 360 UJ    | 870 J     | 730 J     | 1000 J    | 1200 J    | 27 J      | 50 J      |
| Benzo(a)pyrene               | µg/Kg     | 360 UJ    | 360 UJ    | 580 J     | 650 J     | 780 J     | 1300 J    | 410 UJ    | 38 J      |
| Indeno(1,2,3-cd)pyrene       | µg/Kg     | 360 UJ    | 360 UJ    | 370 J     | 460 J     | 510 J     | 810 J     | 21 J      | 39 J      |
| Dibenz(a,h)anthracene        | µg/Kg     | 360 UJ    | 360 UJ    | 130 J     | 170 J     | 200 J     | 360 J     | 410 UJ    | 410 UJ    |
| Benzo(g,h,i)perylene         | µg/Kg     | 360 UJ    | 360 UJ    | 290 J     | 300 J     | 320 J     | 620 J     | 60 J      | 46 J      |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | MATRIX     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |  |
|------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|--|
|                        | LOCATION   | B-41     | B-41     | B-42     | B-42     | B-42     | B-42     | B-42     | B-42     |  |
|                        | DEPTH(FT.) | 6.5-8    | 6.5-8    | 0-2      | 0-2      | 2-4      | 2-4      | 4-6      | 4-6      |  |
|                        | DATE       | 12/09/92 | 12/08/92 | 12/09/92 | 12/09/92 | 12/09/92 | 12/09/92 | 12/09/92 | 12/09/92 |  |
|                        | ES ID      | B41-4    | B41-4RE  | B42-1    | B42-1RE  | B42-2    | B42-2RE  | B42-3    | B42-3RE  |  |
|                        | LAB ID     | 176004   | 176004R1 | 176005   | 176005R1 | 176006   | 176006R1 | 176007   | 176007R1 |  |
|                        | UNITS      |          |          |          |          |          |          |          |          |  |
| <b>VOCs</b>            |            |          |          |          |          |          |          |          |          |  |
| <b>Pesticides/PCBs</b> |            |          |          |          |          |          |          |          |          |  |
| alpha-BHC              | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| beta-BHC               | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| delta-BHC              | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| gamma-BHC (Lindane)    | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| Heptachlor             | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| Aldrin                 | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| Heptachlor epoxide     | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| Endosulfan I           | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| Dieldrin               | µg/Kg      | 3.6 U    | NS       | 19 U     | NS       | 20 U     | NS       | 4.1 U    | NS       |  |
| 4,4'-DDE               | µg/Kg      | 3.6 U    | NS       | 90 J     | NS       | 290      | NS       | 14       | NS       |  |
| Endrin                 | µg/Kg      | 3.6 U    | NS       | 19 U     | NS       | 20 U     | NS       | 4.1 U    | NS       |  |
| Endosulfan II          | µg/Kg      | 3.6 U    | NS       | 19 U     | NS       | 20 U     | NS       | 4.1 U    | NS       |  |
| 4,4'-DDD               | µg/Kg      | 3.6 U    | NS       | 6.4 J    | NS       | 15 J     | NS       | 1.3 J    | NS       |  |
| Endosulfan sulfate     | µg/Kg      | 3.6 U    | NS       | 19 U     | NS       | 20 U     | NS       | 4.1 U    | NS       |  |
| 4,4'-DDT               | µg/Kg      | 3.6 U    | NS       | 260 J    | NS       | 240      | NS       | 30       | NS       |  |
| Methoxychlor           | µg/Kg      | 18 U     | NS       | 98 U     | NS       | 100 U    | NS       | 21 U     | NS       |  |
| Endrin ketone          | µg/Kg      | 3.6 U    | NS       | 19 U     | NS       | 20 U     | NS       | 4.1 U    | NS       |  |
| Endrin aldehyde        | µg/Kg      | 3.6 U    | NS       | 19 U     | NS       | 20 U     | NS       | 4.1 U    | NS       |  |
| alpha-Chlordane        | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| gamma-Chlordane        | µg/Kg      | 1.8 U    | NS       | 9.8 U    | NS       | 10 U     | NS       | 2.1 U    | NS       |  |
| Toxaphene              | µg/Kg      | 180 U    | NS       | 980 U    | NS       | 1000 U   | NS       | 210 U    | NS       |  |
| Aroclor-1016           | µg/Kg      | 36 U     | NS       | 190 U    | NS       | 200 U    | NS       | 41 U     | NS       |  |
| Aroclor-1221           | µg/Kg      | 72 U     | NS       | 390 U    | NS       | 400 U    | NS       | 84 U     | NS       |  |
| Aroclor-1232           | µg/Kg      | 36 U     | NS       | 190 U    | NS       | 200 U    | NS       | 41 U     | NS       |  |
| Aroclor-1242           | µg/Kg      | 36 U     | NS       | 190 U    | NS       | 200 U    | NS       | 41 U     | NS       |  |
| Aroclor-1248           | µg/Kg      | 36 U     | NS       | 190 U    | NS       | 200 U    | NS       | 41 U     | NS       |  |
| Aroclor-1254           | µg/Kg      | 36 U     | NS       | 190 U    | NS       | 200 U    | NS       | 41 U     | NS       |  |
| Aroclor-1260           | µg/Kg      | 36 U     | NS       | 190 U    | NS       | 200 U    | NS       | 41 U     | NS       |  |
| <b>Herbicides</b>      |            |          |          |          |          |          |          |          |          |  |
| 2,4-D                  | µg/Kg      | 54 U     | 53 U     | 58 U     | NS       | 60 U     | NS       | 62 U     | NS       |  |
| 2,4-DB                 | µg/Kg      | 54 U     | 53 U     | 58 U     | NS       | 60 U     | NS       | 62 U     | NS       |  |
| 2,4,5-T                | µg/Kg      | 5.4 U    | 5.3 U    | 5.8 U    | NS       | 6 U      | NS       | 6.2 U    | NS       |  |
| 2,4,5-TP (Silvex)      | µg/Kg      | 5.4 U    | 5.3 U    | 5.8 U    | NS       | 6 U      | NS       | 6.2 U    | NS       |  |
| Dalapon                | µg/Kg      | 130 U    | 130 U    | 140 U    | NS       | 140 U    | NS       | 150 U    | NS       |  |
| Dicamba                | µg/Kg      | 5.4 U    | 5.3 U    | 5.8 U    | NS       | 6 U      | NS       | 6.2 U    | NS       |  |
| Dichloroprop           | µg/Kg      | 54 U     | 53 U     | 58 U     | NS       | 60 U     | NS       | 62 U     | NS       |  |
| Dinoseb                | µg/Kg      | 27 U     | 27 U     | 29 U     | NS       | 30 U     | NS       | 31 U     | NS       |  |
| MCPA                   | µg/Kg      | 5400 U   | 5300 U   | 5800 U   | NS       | 6000 U   | NS       | 6200 U   | NS       |  |
| MCPP                   | µg/Kg      | 5400 U   | 5300 U   | 5800 U   | NS       | 6000 U   | NS       | 6200 U   | NS       |  |
| <b>Metals</b>          |            |          |          |          |          |          |          |          |          |  |
| Aluminum               | mg/Kg      | 7460     | NS       | 12500    | NS       | 12500    | NS       | 20600    | NS       |  |
| Antimony               | mg/Kg      | 9.8 UJ   | NS       | 15.2 J   | NS       | 8.6 UJ   | NS       | 8.9 UJ   | NS       |  |
| Arsenic                | mg/Kg      | 2.4      | NS       | 8.7      | NS       | 10.5     | NS       | 7.1      | NS       |  |
| Barium                 | mg/Kg      | 20.4 J   | NS       | 168      | NS       | 218      | NS       | 104      | NS       |  |
| Beryllium              | mg/Kg      | 0.29 J   | NS       | 0.45 J   | NS       | 0.45 J   | NS       | 1.1      | NS       |  |
| Cadmium                | mg/Kg      | 0.56 U   | NS       | 2.8      | NS       | 3.7      | NS       | 0.51 U   | NS       |  |
| Calcium                | mg/Kg      | 12100    | NS       | 31200    | NS       | 32300    | NS       | 6320     | NS       |  |
| Chromium               | mg/Kg      | 12.2     | NS       | 48.6     | NS       | 52.4     | NS       | 41.5     | NS       |  |
| Cobalt                 | mg/Kg      | 6 J      | NS       | 12.8     | NS       | 25.1     | NS       | 15.2     | NS       |  |
| Copper                 | mg/Kg      | 5.4 R    | NS       | 177      | NS       | 311      | NS       | 51.6     | NS       |  |
| Iron                   | mg/Kg      | 15300    | NS       | 43800    | NS       | 49300    | NS       | 40900    | NS       |  |
| Lead                   | mg/Kg      | 4.2      | NS       | 1170     | NS       | 672      | NS       | 158      | NS       |  |
| Magnesium              | mg/Kg      | 3300     | NS       | 6470     | NS       | 6760     | NS       | 6500     | NS       |  |
| Manganese              | mg/Kg      | 267 R    | NS       | 630      | NS       | 589      | NS       | 641      | NS       |  |
| Mercury                | mg/Kg      | 0.06     | NS       | 1.2      | NS       | 0.89     | NS       | 0.38     | NS       |  |
| Nickel                 | mg/Kg      | 18       | NS       | 66       | NS       | 2520     | NS       | 76.8     | NS       |  |
| Potassium              | mg/Kg      | 405 J    | NS       | 1420     | NS       | 1730     | NS       | 1950     | NS       |  |
| Selenium               | mg/Kg      | 0.38 J   | NS       | 1 J      | NS       | 2.1      | NS       | 0.88     | NS       |  |
| Silver                 | mg/Kg      | 0.58 U   | NS       | 10.5     | NS       | 2        | NS       | 0.53 U   | NS       |  |
| Sodium                 | mg/Kg      | 54.1 U   | NS       | 309 J    | NS       | 375 J    | NS       | 87.6 J   | NS       |  |
| Thallium               | mg/Kg      | 0.38 U   | NS       | 0.59 U   | NS       | 0.51 U   | NS       | 0.4 U    | NS       |  |
| Vanadium               | mg/Kg      | 8.3 J    | NS       | 27.1     | NS       | 27.7     | NS       | 30.3     | NS       |  |
| Zinc                   | mg/Kg      | 40.5     | NS       | 649      | NS       | 907      | NS       | 171      | NS       |  |
| Cyanide                | mg/Kg      | 0.62 U   | NS       | 0.52 U   | NS       | 0.51 U   | NS       | 0.58 U   | NS       |  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION DEPTH(FT.) | SOIL B-42 6-7.2 12/09/92 B42-4 176008 | SOIL B-42 6-7.2 12/09/92 B42-4RE 176008R2 | SOIL B-43 0-2 12/09/92 B43-1 176009 | SOIL B-43 0-2 12/09/92 B43-1RE 176009R1 | SOIL B-43 2-4 12/09/92 B43-2 176010 | SOIL B-43 2-4 12/09/92 B43-2RE 176010R1 | SOIL B-43 4-6 12/09/92 B43-3 176011 | SOIL B-43 4-6 12/09/92 B43-3RE 176011R1 |
|----------------------------|----------------------------|---------------------------------------|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|
|                            | UNITS                      |                                       |   |                                     |   |                                     |   |                                     |   |
| VOCs                       |                            |                                       |   |                                     |   |                                     |   |                                     |   |
| Chloromethane              | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Bromomethane               | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Vinyl Chloride             | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Chloroethane               | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Methylene Chloride         | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Acetone                    | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 36 UJ                               | 48 UJ                                   |
| Carbon Disulfide           | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 1,1-Dichloroethene         | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 1,1-Dichloroethane         | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 1,2-Dichloroethene (total) | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Chloroform                 | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 1,2-Dichloroethane         | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 2-Butanone                 | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 7 J                                 | 7 J                                     |
| 1,1,1-Trichloroethane      | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Carbon Tetrachloride       | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Vinyl acetate              | µg/Kg                      | NS                                    | NS  | NS                                  | NS                                      | NS                                  | NS                                      | NS                                  | NS                                      |
| Bromodichloromethane       | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 1,2-Dichloropropane        | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| cis-1,3-Dichloropropene    | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Trichloroethene            | µg/Kg                      | 2 J                                   | NS  | 8 J                                 | NS                                      | 8 J                                 | NS                                      | 11 J                                | 9 J                                     |
| Dibromochloromethane       | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 1,1,2-Trichloroethane      | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Benzene                    | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| trans-1,3-Dichloropropene  | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Bromoform                  | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 4-Methyl-2-Pentanone       | µg/Kg                      | 11 U                                  | NS  | 5 J                                 | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 2-Hexanone                 | µg/Kg                      | 11 U                                  | NS  | 9 J                                 | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Tetrachloroethene          | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| 1,1,2,2-Tetrachloroethane  | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Toluene                    | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Chlorobenzene              | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Ethylbenzene               | µg/Kg                      | 11 U                                  | NS  | 3 J                                 | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Styrene                    | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |
| Xylene (total)             | µg/Kg                      | 11 U                                  | NS  | 11 U                                | NS                                      | 13 U                                | NS                                      | 12 UJ                               | 12 UJ                                   |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION<br>DEPTH(FT.) | SOIL<br>B-42<br>6-7.2<br>12/09/92<br>B42-4<br>176008 | SOIL<br>B-42<br>6-7.2<br>12/09/92<br>B42-4RE<br>176008R2 | SOIL<br>B-43<br>0-2<br>12/09/92<br>B43-1<br>176009 | SOIL<br>B-43<br>0-2<br>12/09/92<br>B43-1RE<br>176009R1 | SOIL<br>B-43<br>2-4<br>12/09/92<br>B43-2<br>176010 | SOIL<br>B-43<br>2-4<br>12/09/92<br>B43-2RE<br>176010R1 | SOIL<br>B-43<br>4-6<br>12/09/92<br>B43-3<br>176011 | SOIL<br>B-43<br>4-6<br>12/09/92<br>B43-3RE<br>176011R1 |
|-------------------------------|--|--|--|--|--|--|--|--|
| COMPOUND                      | UNITS  |  |  |  |  |  |  |  |
| VOCs                          |  |  |  |  |  |  |  |  |
| Semivolatiles                 |  |  |  |  |  |  |  |  |
| Phenol                        | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 J   | 2800 UJ  | 1000 UJ  |
| bis(2-Chloroethyl) ether      | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2-Chlorophenol                | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 1,3-Dichlorobenzene           | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 1,4-Dichlorobenzene           | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Benzyl alcohol                | µg/Kg  | NS   | NS   | NS   | NS   | NS   | NS   | NS   |
| 1,2-Dichlorobenzene           | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2-Methylphenol                | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2,2'-oxybis(1-Chloropropane)  | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 4-Methylphenol                | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| N-Nitroso-di-n-propylamine    | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Hexachloroethane              | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Nitrobenzene                  | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Isochlorone                   | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2-Nitrophenol                 | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2,4-Dimethylphenol            | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Benzic acid                   | µg/Kg  | NS   | NS   | NS   | NS   | NS   | NS   | NS   |
| bis(2-Chloroethoxy) methane   | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2,4-Dichlorophenol            | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 1,2,4-Trichlorobenzene        | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Naphthalene                   | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 500 J  | 2800 UJ  | 1000 UJ  |
| 4-Chloroaniline               | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Hexachlorobutadiene           | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 4-Chloro-3-methylphenol       | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2-Methylnaphthalene           | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 350 J  | 2800 UJ  | 1000 UJ  |
| Hexachlorocyclopentadiene     | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2,4,6-Trichlorophenol         | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2,4,5-Trichlorophenol         | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2-Chloronaphthalene           | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2-Nitroaniline                | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 5200 UJ  | 6700 UJ  | 2500 UJ  |
| Dimethylphthalate             | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Acenaphthylene                | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 2,6-Dinitrotoluene            | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 3-Nitroaniline                | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 5200 UJ  | 6700 UJ  | 2500 UJ  |
| Acenaphthene                  | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 J   | 250 J  | 88 J   |
| 2,4-Dinitrophenol             | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 5200 UJ  | 6700 UJ  | 2500 UJ  |
| 4-Nitrophenol                 | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 5200 UJ  | 6700 UJ  | 2500 UJ  |
| Dibenzofuran                  | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 990 J  | 120 J  | 1000 UJ  |
| 2,4-Dinitrotoluene            | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Diethylphthalate              | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 1300 J   | 2800 UJ  | 1000 UJ  |
| 4-Chlorophenyl-phenylether    | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Fluorene                      | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 1900 J   | 230 J  | 53 J   |
| 4-Nitroaniline                | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 5200 UJ  | 6700 UJ  | 2500 UJ  |
| 4,8-Dinitro-2-methylphenol    | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 5200 UJ  | 6700 UJ  | 2500 UJ  |
| N-Nitrosodiphenyl amine       | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| 4-Bromophenyl-phenylether     | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Hexachlorobenzene             | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Pentachlorophenol             | µg/Kg  | 870 UJ   | 880 UJ   | 6200 UJ  | 6200 UJ  | 5200 UJ  | 6700 UJ  | 2500 UJ  |
| Phenanthrene                  | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 180 J  | 260 J  | 320 J  |
| Anthracene                    | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2900 J   | 680 J  | 95 J   |
| Carbazole                     | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 1800 J   | 1300 J   | 430 J  |
| Di-n-butylphthalate           | µg/Kg  | 390 J  | 90 J   | 82 J   | 2500 UJ  | 200 J  | 320 J  | 1000 UJ  |
| Fluoranthene                  | µg/Kg  | 360 UJ   | 18 J   | 240 J  | 1300 J   | 15000 J  | 4300 J   | 410 J  |
| Pyrene                        | µg/Kg  | 360 UJ   | 13 J   | 270 J  | 1100 J   | 14000 J  | 3600 J   | 500 J  |
| Butylbenzylphthalate          | µg/Kg  | 14 J   | 14 J   | 2500 UJ  | 2500 UJ  | 300 J  | 300 J  | 1000 UJ  |
| 3,3'-Dichlorobenzidine        | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Benzo(a)anthracene            | µg/Kg  | 360 UJ   | 360 UJ   | 140 J  | 2500 UJ  | 8000 J   | 2200 J   | 250 J  |
| Chrysene                      | µg/Kg  | 360 UJ   | 360 UJ   | 170 J  | 2500 UJ  | 8800 J   | 2400 J   | 300 J  |
| bis(2-Ethylhexyl)phthalate    | µg/Kg  | 1500   | 1200 J   | 33000 J  | 230000 J   | 13000 J  | 21000 J  | 3000 J   |
| Di-n-octylphthalate           | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 UJ  | 2800 UJ  | 1000 UJ  |
| Benzo(b)fluoranthene          | µg/Kg  | 360 UJ   | 360 UJ   | 170 J  | 2500 UJ  | 7200 J   | 1900 J   | 260 J  |
| Benzo(k)fluoranthene          | µg/Kg  | 360 UJ   | 360 UJ   | 180 J  | 2500 UJ  | 5900 J   | 1600 J   | 290 J  |
| Benzo(a)pyrene                | µg/Kg  | 360 UJ   | 360 UJ   | 84 J   | 2500 UJ  | 6400 J   | 1800 J   | 210 J  |
| Indeno(1,2,3-cd)pyrene        | µg/Kg  | 360 UJ   | 360 UJ   | 120 J  | 2500 UJ  | 4700 J   | 1400 J   | 200 J  |
| Dibenz(a,h)anthracene         | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2100 J   | 480 J  | 1000 UJ  |
| Benzo(g,h,i)perylene          | µg/Kg  | 360 UJ   | 360 UJ   | 2500 UJ  | 2500 UJ  | 2300 J   | 950 J  | 260 J  |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH(FT.) | SOIL B-42 6-7.2 DATE 12/09/92 ES ID B42-4 LAB ID 176008 | SOIL B-42 6-7.2 DATE 12/09/92 ES ID B42-4RE LAB ID 176008R2 | SOIL B-43 0-2 DATE 12/09/92 ES ID B43-1 LAB ID 176009 | SOIL B-43 0-2 DATE 12/09/92 ES ID B43-1RE LAB ID 176009R1 | SOIL B-43 2-4 DATE 12/09/92 ES ID B43-2 LAB ID 176010 | SOIL B-43 2-4 DATE 12/09/92 ES ID B43-2RE LAB ID 176010R1 | SOIL B-43 4-6 DATE 12/09/92 ES ID B43-3 LAB ID 176011 | SOIL B-43 4-6 DATE 12/09/92 ES ID B43-3RE LAB ID 176011R1 |    |
|----------------------------|---|---|---|---|---|---|---|---|----|
| <b>COMPOUND UNITS</b>      |   |   |   |   |   |   |   |   |    |
| <b>VOCs</b>                |   |   |   |   |   |   |   |   |    |
| <b>Pesticides/PCBs</b>     |   |   |   |   |   |   |   |   |    |
| alpha-BHC                  | µg/Kg   | 1.9 UJ  | NS  | 2 UJ  | NS  | 11 U  | NS  | 2.1 U   | NS |
| beta-BHC                   | µg/Kg   | 1.9 UJ  | NS  | 2 UJ  | NS  | 11 U  | NS  | 2.1 U   | NS |
| delta-BHC                  | µg/Kg   | 1.9 UJ  | NS  | 2 UJ  | NS  | 11 U  | NS  | 2.1 U   | NS |
| gamma-BHC (Lindane)        | µg/Kg   | 1.9 UJ  | NS  | 2 UJ  | NS  | 11 U  | NS  | 2.1 U   | NS |
| Heptachlor                 | µg/Kg   | 1.9 UJ  | NS  | 2 UJ  | NS  | 11 U  | NS  | 2.1 U   | NS |
| Aldrin                     | µg/Kg   | 1.9 UJ  | NS  | 2 UJ  | NS  | 11 U  | NS  | 2.1 U   | NS |
| Heptachlor epoxide         | µg/Kg   | 1.9 UJ  | NS  | 2 UJ  | NS  | 11 U  | NS  | 2.1 U   | NS |
| Endosulfan I               | µg/Kg   | 1.9 UJ  | NS  | 2 UJ  | NS  | 11 U  | NS  | 2.1 U   | NS |
| Dieldrin                   | µg/Kg   | 3.6 UJ  | NS  | 3.9 UJ  | NS  | 21 U  | NS  | 4.2 U   | NS |
| 4,4'-DDE                   | µg/Kg   | 3.6 UJ  | NS  | 17 J  | NS  | 64  | NS  | 22  | NS |
| Endrin                     | µg/Kg   | 3.6 UJ  | NS  | 3.9 UJ  | NS  | 21 U  | NS  | 4.2 U   | NS |
| Endosulfan II              | µg/Kg   | 3.6 UJ  | NS  | 3.9 UJ  | NS  | 21 U  | NS  | 4.2 U   | NS |
| 4,4'-DDD                   | µg/Kg   | 3.6 UJ  | NS  | 18 J  | NS  | 88  | NS  | 24  | NS |
| Endosulfan sulfate         | µg/Kg   | 3.6 UJ  | NS  | 3.9 UJ  | NS  | 21 U  | NS  | 4.2 U   | NS |
| 4,4'-DDT                   | µg/Kg   | 3.6 UJ  | NS  | 5.5 J   | NS  | 22 J  | NS  | 6.7 J   | NS |
| Methoxychlor               | µg/Kg   | 19 UJ   | NS  | 20 UJ   | NS  | 110 U   | NS  | 21 U  | NS |
| Endrin ketone              | µg/Kg   | 3.6 UJ  | NS  | 3.9 UJ  | NS  | 21 U  | NS  | 4.2 U   | NS |
| Endrin aldehyde            | µg/Kg   | 3.6 UJ  | NS  | 3.9 UJ  | NS  | 21 U  | NS  | 4.2 U   | NS |
| alpha-Chlordane            | µg/Kg   | 1.9 UJ  | NS  | 1.3 UJ  | NS  | 8 J   | NS  | 5 J   | NS |
| gamma-Chlordane            | µg/Kg   | 1.9 UJ  | NS  | 2 UJ  | NS  | 11 U  | NS  | 2.1 U   | NS |
| Toxaphene                  | µg/Kg   | 190 UJ  | NS  | 200 UJ  | NS  | 1100 U  | NS  | 210 U   | NS |
| Aroclor-1016               | µg/Kg   | 36 UJ   | NS  | 39 UJ   | NS  | 210 U   | NS  | 42 U  | NS |
| Aroclor-1221               | µg/Kg   | 73 UJ   | NS  | 79 UJ   | NS  | 430 U   | NS  | 85 U  | NS |
| Aroclor-1232               | µg/Kg   | 36 UJ   | NS  | 39 UJ   | NS  | 210 U   | NS  | 42 U  | NS |
| Aroclor-1242               | µg/Kg   | 36 UJ   | NS  | 45 J  | NS  | 260   | NS  | 96  | NS |
| Aroclor-1248               | µg/Kg   | 36 UJ   | NS  | 39 UJ   | NS  | 210 U   | NS  | 42 U  | NS |
| Aroclor-1254               | µg/Kg   | 36 UJ   | NS  | 43 J  | NS  | 180 J   | NS  | 66  | NS |
| Aroclor-1280               | µg/Kg   | 36 UJ   | NS  | 39 UJ   | NS  | 210 U   | NS  | 42 U  | NS |
| <b>Herbicides</b>          |   |   |   |   |   |   |   |   |    |
| 2,4-D                      | µg/Kg   | 55 U  | NS  | 58 U  | NS  | 64 U  | NS  | 63 U  | NS |
| 2,4-DB                     | µg/Kg   | 55 U  | NS  | 58 U  | NS  | 64 U  | NS  | 63 U  | NS |
| 2,4,5-T                    | µg/Kg   | 5.5 U   | NS  | 5.8 U   | NS  | 6.4 U   | NS  | 6.3 U   | NS |
| 2,4,5-TP (Silvex)          | µg/Kg   | 5.5 U   | NS  | 5.8 U   | NS  | 6.4 U   | NS  | 6.3 U   | NS |
| Dalapon                    | µg/Kg   | 130 U   | NS  | 140 U   | NS  | 150 U   | NS  | 150 U   | NS |
| Dicamba                    | µg/Kg   | 5.5 U   | NS  | 5.8 U   | NS  | 6.4 U   | NS  | 6.3 U   | NS |
| Dichloroprop               | µg/Kg   | 55 U  | NS  | 58 U  | NS  | 64 U  | NS  | 63 U  | NS |
| Dinoseb                    | µg/Kg   | 27 U  | NS  | 29 U  | NS  | 32 U  | NS  | 31 U  | NS |
| MCPA                       | µg/Kg   | 5500 U  | NS  | 5800 U  | NS  | 6400 U  | NS  | 6300 U  | NS |
| MCPP                       | µg/Kg   | 5500 U  | NS  | 5800 U  | NS  | 6400 U  | NS  | 6300 U  | NS |
| <b>Metals</b>              |   |   |   |   |   |   |   |   |    |
| Aluminum                   | mg/Kg   | 12900   | NS  | 13800   | NS  | 11100   | NS  | 16300   | NS |
| Antimony                   | mg/Kg   | 7.7 UJ  | NS  | 8.5 UJ  | NS  | 10.2 UJ   | NS  | 7.6 UJ  | NS |
| Arsenic                    | mg/Kg   | 3.9   | NS  | 7.4   | NS  | 8.4   | NS  | 7.5   | NS |
| Barium                     | mg/Kg   | 61  | NS  | 116   | NS  | 114   | NS  | 166   | NS |
| Beryllium                  | mg/Kg   | 0.57 J  | NS  | 0.57 J  | NS  | 0.44 J  | NS  | 0.55 J  | NS |
| Cadmium                    | mg/Kg   | 0.44 U  | NS  | 1.8   | NS  | 11.4  | NS  | 3.9   | NS |
| Calcium                    | mg/Kg   | 65200   | NS  | 37700   | NS  | 21100   | NS  | 54400   | NS |
| Chromium                   | mg/Kg   | 21.9  | NS  | 33.8  | NS  | 35.6  | NS  | 36.8  | NS |
| Cobalt                     | mg/Kg   | 11.9  | NS  | 10.6  | NS  | 21.6  | NS  | 12.2  | NS |
| Copper                     | mg/Kg   | 24.4  | NS  | 79.4  | NS  | 91.8  | NS  | 89.3  | NS |
| Iron                       | mg/Kg   | 25100   | NS  | 35000   | NS  | 65100   | NS  | 67500   | NS |
| Lead                       | mg/Kg   | 17.3  | NS  | 151   | NS  | 2610  | NS  | 233   | NS |
| Magnesium                  | mg/Kg   | 9910  | NS  | 8830  | NS  | 4900  | NS  | 9960  | NS |
| Manganese                  | mg/Kg   | 435   | NS  | 476   | NS  | 405   | NS  | 860   | NS |
| Mercury                    | mg/Kg   | 0.04 J  | NS  | 0.42  | NS  | 0.38  | NS  | 0.38  | NS |
| Nickel                     | mg/Kg   | 36.5  | NS  | 38.5  | NS  | 43.3  | NS  | 51  | NS |
| Potassium                  | mg/Kg   | 1460  | NS  | 1250  | NS  | 1140  | NS  | 1420  | NS |
| Selenium                   | mg/Kg   | 0.67 J  | NS  | 1 J   | NS  | 1.2   | NS  | 0.82 J  | NS |
| Silver                     | mg/Kg   | 0.45 U  | NS  | 0.83 J  | NS  | 1.3 J   | NS  | 0.9 J   | NS |
| Sodium                     | mg/Kg   | 119 J   | NS  | 98.5 J  | NS  | 116 J   | NS  | 216 J   | NS |
| Thallium                   | mg/Kg   | 0.45 U  | NS  | 0.55 U  | NS  | 0.35 U  | NS  | 0.54 U  | NS |
| Vanadium                   | mg/Kg   | 19.4  | NS  | 28.1  | NS  | 20.5  | NS  | 29.3  | NS |
| Zinc                       | mg/Kg   | 61.5  | NS  | 745   | NS  | 1410  | NS  | 3100  | NS |
| Cyanide                    | mg/Kg   | 0.55 U  | NS  | 0.59 U  | NS  | 0.62 U  | NS  | 0.95  | NS |

SENECA ARMY DEPOT, ASH LANDFILL  
 SOIL ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX      | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |  |
|----------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|--|
|                            | LOCATION    | B-43     | B-43     | B-44     | B-44     | B-44     | B-44     | B-44     | B-44     |  |
|                            | DEPTH (FT.) | 8-10     | 8-10     | 8-8.2    | 8-8.2    | 0-2      | 0-2      | 0-2      | 2-4      |  |
|                            | DATE        | 12/09/92 | 12/09/92 | 12/10/92 | 12/10/92 | 12/10/92 | 12/10/92 | 12/10/92 | 12/10/92 |  |
|                            | ES ID       | B43-4    | B43-4RE  | B44A-3   | B44A-3RE | B44B-1   | B44B-1RE | B44B-2   | B44B-2RE |  |
|                            | LAB ID      | 178012   | 178012R1 | 178013   | 178013R1 | 178014   | 178014R1 | 178015   | 178015R1 |  |
|                            | UNITS       |          |          |          |          |          |          |          |          |  |
| VOCs                       |             |          |          |          |          |          |          |          |          |  |
| Chloromethane              | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Bromomethane               | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Vinyl Chloride             | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Chloroethane               | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Methylene Chloride         | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Acetone                    | µg/Kg       | 24 UJ    | 14 UJ    | 93 J     | 19 J     | 12 U     | NS       | 12 U     | 12 U     |  |
| Carbon Disulfide           | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 1,1-Dichloroethane         | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 1,1-Dichloroethane         | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 1,2-Dichloroethane (total) | µg/Kg       | 13 UJ    | 13 UJ    | 5 J      | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Chloroform                 | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 1,2-Dichloroethane         | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 2-Butanone                 | µg/Kg       | 13 UJ    | 13 UJ    | 16 J     | 6 J      | 12 U     | NS       | 12 U     | 12 U     |  |
| 1,1,1-Trichloroethane      | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Carbon Tetrachloride       | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Vinyl acetate              | µg/Kg       | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |  |
| Bromodichloromethane       | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 1,2-Dichloropropane        | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| cis-1,3-Dichloropropene    | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Trichloroethene            | µg/Kg       | 15 J     | 15 J     | 5 J      | 5 J      | 12 U     | NS       | 12 U     | 2 J      |  |
| Dibromochloromethane       | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 1,1,2-Trichloroethane      | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Benzene                    | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| trans-1,3-Dichloropropene  | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Bromoform                  | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 4-Methyl-2-Pentanone       | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 2-Hexanone                 | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Tetrachloroethene          | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Toluene                    | µg/Kg       | 2 J      | 2 J      | 10 J     | 10 J     | 12 U     | NS       | 12 U     | 12 U     |  |
| Chlorobenzene              | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Ethylbenzene               | µg/Kg       | 13 UJ    | 13 UJ    | 48 J     | 44 J     | 12 U     | NS       | 12 U     | 12 U     |  |
| Styrene                    | µg/Kg       | 13 UJ    | 13 UJ    | 12 UJ    | 12 U     | 12 U     | NS       | 12 U     | 12 U     |  |
| Xylene (total)             | µg/Kg       | 13 UJ    | 13 UJ    | 250 J    | 240 J    | 12 U     | NS       | 12 U     | 12 U     |  |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|------------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                              | LOCATION   | B-43     | B-43     | B-44     | B-44     | B-44     | B-44     | B-44     | B-44     | B-44     |
|                              | DEPTH(FT.) | 8-10     | 8-10     | 8-8.2    | 8-8.2    | 0-2      | 0-2      | 2-4      | 2-4      | 2-4      |
|                              | DATE       | 12/09/92 | 12/09/92 | 12/10/92 | 12/10/92 | 12/10/92 | 12/10/92 | 12/10/92 | 12/10/92 | 12/10/92 |
|                              | ES ID      | B43-4    | B43-4RE  | B44A-3   | B44A-3RE | B44B-1   | B44B-1RE | B44B-2   | B44B-2RE | B44B-2RE |
|                              | LAB ID     | 176012   | 176012R1 | 176013   | 176013R1 | 176014   | 176014R1 | 176015   | 176015R1 | 176015R1 |
|                              | UNITS      |          |          |          |          |          |          |          |          |          |
| VOCs                         |            |          |          |          |          |          |          |          |          |          |
| Semivolatiles                |            |          |          |          |          |          |          |          |          |          |
| Phenol                       | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| bis(2-Chloroethyl) ether     | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2-Chlorophenol               | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 1,3-Dichlorobenzene          | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 1,4-Dichlorobenzene          | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Benzyl alcohol               | NS         | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dichlorobenzene          | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2-Methylphenol               | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 4-Methylphenol               | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| N-Nitroso-di-n-propylamine   | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Hexachloroethane             | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Nitrobenzene                 | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Isophorone                   | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2-Nitrophenol                | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2,4-Dimethylphenol           | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Benzolic acid                | NS         | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| bis(2-Chloroethoxy) methane  | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2,4-Dichlorophenol           | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 1,2,4-Trichlorobenzene       | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Naphthalene                  | µg/Kg      | 1300 J   | 770 J    | 150 J    | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 100 J    |
| 4-Chloroaniline              | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Hexachlorobutadiene          | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 4-Chloro-3-methylphenol      | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2-Methylnaphthalene          | µg/Kg      | 1600 J   | 1300 J   | 86 J     | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 100 J    |
| Hexachlorocyclopentadiene    | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2,4,6-Trichlorophenol        | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2,4,5-Trichlorophenol        | µg/Kg      | 14000 UJ | 17000 UJ | 2500 UJ  | 12000 UJ | 1000 UJ  | 1000 UJ  | 970 UJ   | 980 UJ   | 980 UJ   |
| 2-Chloronaphthalene          | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 2-Nitroaniline               | µg/Kg      | 14000 UJ | 17000 UJ | 2500 UJ  | 12000 UJ | 1000 UJ  | 1000 UJ  | 970 UJ   | 980 UJ   | 980 UJ   |
| Dimethylphthalate            | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Acenaphthylene               | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 13 J     | 400 UJ   | 76 J     | 400 UJ   |
| 2,6-Dinitrotoluene           | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 3-Nitroaniline               | µg/Kg      | 14000 UJ | 17000 UJ | 2500 UJ  | 12000 UJ | 1000 UJ  | 1000 UJ  | 970 UJ   | 980 UJ   | 980 UJ   |
| Acenaphthene                 | µg/Kg      | 8500 J   | 14000 J  | 120 J    | 5100 UJ  | 18 J     | 420 UJ   | 400 UJ   | 280 J    | 400 UJ   |
| 2,4-Dinitrophenol            | µg/Kg      | 14000 UJ | 17000 UJ | 2500 UJ  | 12000 UJ | 1000 UJ  | 1000 UJ  | 970 UJ   | 980 UJ   | 980 UJ   |
| 4-Nitrophenol                | µg/Kg      | 14000 UJ | 17000 UJ | 2500 UJ  | 12000 UJ | 1000 UJ  | 1000 UJ  | 970 UJ   | 980 UJ   | 980 UJ   |
| Dibenzofuran                 | µg/Kg      | 5600 J   | 7000 J   | 71 J     | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 120 J    | 400 UJ   |
| 2,4-Dinitrotoluene           | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Diethylphthalate             | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 4-Chlorophenyl-phenylether   | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Fluorene                     | µg/Kg      | 12000 J  | 11000 J  | 130 J    | 5100 UJ  | 17 J     | 420 UJ   | 400 UJ   | 250 J    | 400 UJ   |
| 4-Nitroaniline               | µg/Kg      | 14000 UJ | 17000 UJ | 2500 UJ  | 12000 UJ | 1000 UJ  | 1000 UJ  | 970 UJ   | 980 UJ   | 980 UJ   |
| 4,6-Dinitro-2-methylphenol   | µg/Kg      | 14000 UJ | 17000 UJ | 2500 UJ  | 12000 UJ | 1000 UJ  | 1000 UJ  | 970 UJ   | 980 UJ   | 980 UJ   |
| N-Nitrosodiphenylamine       | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 4-Bromophenyl-phenylether    | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Hexachlorobenzene            | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Pentachlorophenol            | µg/Kg      | 14000 UJ | 17000 UJ | 2500 UJ  | 12000 UJ | 1000 UJ  | 1000 UJ  | 970 UJ   | 980 UJ   | 980 UJ   |
| Phenanthrene                 | µg/Kg      | 43000 J  | 35000 J  | 810 J    | 850 J    | 140 J    | 93 J     | 87 J     | 2000 J   | 5000 J   |
| Anthracene                   | µg/Kg      | 13000 J  | 15000 J  | 140 J    | 280 J    | 32 J     | 22 J     | 14 J     | 550 J    | 1400 J   |
| Carbazole                    | µg/Kg      | 37000 J  | 14000 J  | 860 J    | 350 J    | 200 J    | 38 J     | 110 J    | 1400 J   | 4000 J   |
| Di-n-butylphthalate          | µg/Kg      | 5800 UJ  | 7000 UJ  | 120 J    | 25000 J  | 40 J     | 420 UJ   | 18 J     | 400 UJ   | 400 UJ   |
| Fluoranthene                 | µg/Kg      | 25000 J  | 29000 J  | 440 J    | 1000 J   | 200 J    | 220 J    | 120 J    | 2600 J   | 6000 J   |
| Pyrene                       | µg/Kg      | 24000 J  | 18000 J  | 510 J    | 820 J    | 180 J    | 160 J    | 140 J    | 2200 J   | 5000 J   |
| Butylbenzyl phthalate        | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| 3,3'-Dichlorobenzidine       | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Benzo(a)anthracene           | µg/Kg      | 5800 J   | 4300 J   | 250 J    | 470 J    | 97 J     | 88 J     | 62 J     | 1400 J   | 3000 J   |
| Chrysene                     | µg/Kg      | 5700 J   | 4100 J   | 250 J    | 520 J    | 110 J    | 130 J    | 81 J     | 1500 J   | 3500 J   |
| bis(2-Ethylhexyl)phthalate   | µg/Kg      | 5800 J   | 3500 J   | 810 J    | 25000 J  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Di-n-octylphthalate          | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 410 UJ   | 420 UJ   | 400 UJ   | 400 UJ   | 400 UJ   |
| Benzo(b)fluoranthene         | µg/Kg      | 2700 J   | 1400 J   | 210 J    | 5100 UJ  | 110 J    | 120 J    | 88 J     | 1500 J   | 3500 J   |
| Benzo(k)fluoranthene         | µg/Kg      | 2600 J   | 1400 J   | 230 J    | 5100 UJ  | 99 J     | 100 J    | 81 J     | 1200 J   | 3000 J   |
| Benzo(a)pyrene               | µg/Kg      | 2100 J   | 1200 J   | 170 J    | 350 J    | 97 J     | 82 J     | 51 J     | 1200 J   | 3000 J   |
| Indeno(1,2,3-cd)pyrene       | µg/Kg      | 1000 J   | 450 J    | 150 J    | 250 J    | 79 J     | 70 J     | 62 J     | 610 J    | 1500 J   |
| Dibenz(a,h)anthracene        | µg/Kg      | 5800 UJ  | 7000 UJ  | 1000 UJ  | 5100 UJ  | 23 J     | 420 UJ   | 400 UJ   | 270 J    | 400 UJ   |
| Benzo(g,h,i)perylene         | µg/Kg      | 590 J    | 7000 UJ  | 130 J    | 280 J    | 57 J     | 60 J     | 44 J     | 430 J    | 1000 J   |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH(FT.) | SOIL B-43 B-10 | SOIL B-43 B-10 | SOIL B-44 B-8.2 | SOIL B-44 B-8.2 | SOIL B-44 B-0-2 | SOIL B-44 B-0-2 | SOIL B-44 B-2-4 | SOIL B-44 B-2-4 |
|----------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| DATE                       | 12/09/92       | 12/09/92       | 12/10/92        | 12/10/92        | 12/10/92        | 12/10/92        | 12/10/92        | 12/10/92        |
| ES ID                      | B43-4          | B43-4RE        | B44A-3          | B44A-3RE        | B44B-1          | B44B-1RE        | B44B-2          | B44B-2RE        |
| LAB ID                     | 176012         | 176012R1       | 176013          | 176013R1        | 176014          | 176014R1        | 176015          | 176015R1        |
| UNITS                      |                |                |                 |                 |                 |                 |                 |                 |
| <b>COMPOUND</b>            |                |                |                 |                 |                 |                 |                 |                 |
| <b>VOCs</b>                |                |                |                 |                 |                 |                 |                 |                 |
| <b>Pesticides/PCBs</b>     |                |                |                 |                 |                 |                 |                 |                 |
| alpha-BHC                  | µg/Kg          | 2.1 U          | NS              | 4.2 U           | NS              | 2.1 U           | NS              | 2.1 U           |
| beta-BHC                   | µg/Kg          | 2.1 U          | NS              | 4.2 U           | NS              | 2.1 U           | NS              | 2.1 U           |
| delta-BHC                  | µg/Kg          | 2.1 U          | NS              | 4.2 U           | NS              | 2.1 U           | NS              | 2.1 U           |
| gamma-BHC (Lindane)        | µg/Kg          | 2.1 U          | NS              | 4.2 U           | NS              | 2.1 U           | NS              | 2.1 U           |
| Heptachlor                 | µg/Kg          | 2.1 U          | NS              | 4.2 U           | NS              | 2.1 U           | NS              | 2.1 U           |
| Aldrin                     | µg/Kg          | 2.1 U          | NS              | 4.2 U           | NS              | 2.1 U           | NS              | 2.1 U           |
| Heptachlor epoxide         | µg/Kg          | 2.1 U          | NS              | 4.2 U           | NS              | 2.1 U           | NS              | 2.1 U           |
| Endosulfan I               | µg/Kg          | 2.1 U          | NS              | 4.2 U           | NS              | 2.1 U           | NS              | 2.1 U           |
| Dieldrin                   | µg/Kg          | 4.1 U          | NS              | 8.1 U           | NS              | 4.1 U           | NS              | 4 U             |
| 4,4'-DDE                   | µg/Kg          | 7.8 J          | NS              | 37              | NS              | 2.9 J           | NS              | 14              |
| Endrin                     | µg/Kg          | 8.2 J          | NS              | 8.1 U           | NS              | 2 J             | NS              | 4 U             |
| Endosulfan II              | µg/Kg          | 4.1 U          | NS              | 8.1 U           | NS              | 4.1 U           | NS              | 4 U             |
| 4,4'-DDD                   | µg/Kg          | 11 J           | NS              | 34              | NS              | 4.1 U           | NS              | 17              |
| Endosulfan sulfate         | µg/Kg          | 2.8 J          | NS              | 8.1 U           | NS              | 4.1 U           | NS              | 4 U             |
| 4,4'-DDT                   | µg/Kg          | 4.1 J          | NS              | 7.8 J           | NS              | 4.1 U           | NS              | 14              |
| Methoxychlor               | µg/Kg          | 4.4 J          | NS              | 42 U            | NS              | 21 U            | NS              | 21 U            |
| Endrin ketone              | µg/Kg          | 4.1 U          | NS              | 6.1 U           | NS              | 4.1 U           | NS              | 4 U             |
| Endrin aldehyde            | µg/Kg          | 4.1 U          | NS              | 8.1 U           | NS              | 4.1 U           | NS              | 4 U             |
| alpha-Chlordane            | µg/Kg          | 15 J           | NS              | 2 J             | NS              | 5 J             | NS              | 3.2 J           |
| gamma-Chlordane            | µg/Kg          | 2.1 U          | NS              | 4.2 U           | NS              | 2.1 U           | NS              | 2.1 U           |
| Toxaphene                  | µg/Kg          | 210 U          | NS              | 420 U           | NS              | 210 U           | NS              | 210 U           |
| Aroclor-1016               | µg/Kg          | 41 U           | NS              | 81 U            | NS              | 41 U            | NS              | 40 U            |
| Aroclor-1221               | µg/Kg          | 83 U           | NS              | 160 U           | NS              | 84 U            | NS              | 82 U            |
| Aroclor-1232               | µg/Kg          | 41 U           | NS              | 81 U            | NS              | 41 U            | NS              | 40 U            |
| Aroclor-1242               | µg/Kg          | 88 J           | NS              | 50 J            | NS              | 41 U            | NS              | 40 U            |
| Aroclor-1248               | µg/Kg          | 41 U           | NS              | 81 U            | NS              | 41 U            | NS              | 40 U            |
| Aroclor-1254               | µg/Kg          | 90 J           | NS              | 89              | NS              | 41 U            | NS              | 40 U            |
| Aroclor-1260               | µg/Kg          | 41 U           | NS              | 81 U            | NS              | 41 U            | NS              | 40 U            |
| <b>Herbicides</b>          |                |                |                 |                 |                 |                 |                 |                 |
| 2,4-D                      | µg/Kg          | 82 U           | NS              | NS              | NS              | 82 U            | NS              | 81 U            |
| 2,4-DB                     | µg/Kg          | 82 U           | NS              | NS              | NS              | 82 U            | NS              | 81 U            |
| 2,4,5-T                    | µg/Kg          | 8.2 U          | NS              | NS              | NS              | 6.2 U           | NS              | 6.1 U           |
| 2,4,5-TP (Silvex)          | µg/Kg          | 8.2 U          | NS              | NS              | NS              | 6.2 U           | NS              | 6.1 U           |
| Dalapon                    | µg/Kg          | 150 U          | NS              | NS              | NS              | 150 U           | NS              | 150 U           |
| Dicamba                    | µg/Kg          | 6.2 U          | NS              | NS              | NS              | 6.2 U           | NS              | 6.1 U           |
| Dichloroprop               | µg/Kg          | 82 U           | NS              | NS              | NS              | 82 U            | NS              | 81 U            |
| Dinoseb                    | µg/Kg          | 31 U           | NS              | NS              | NS              | 31 U            | NS              | 30 U            |
| MCPA                       | µg/Kg          | 8200 U         | NS              | NS              | NS              | 8200 U          | NS              | 8100 U          |
| MCPP                       | µg/Kg          | 8200 U         | NS              | NS              | NS              | 8200 U          | NS              | 8100 U          |
| <b>Metals</b>              |                |                |                 |                 |                 |                 |                 |                 |
| Aluminum                   | mg/Kg          | 13500          | NS              | 11600           | NS              | 15000           | NS              | 13400           |
| Antimony                   | mg/Kg          | 13.5 UJ        | NS              | 8.5 UJ          | NS              | 10.7 UJ         | NS              | 10.2 UJ         |
| Arsenic                    | mg/Kg          | 6.5            | NS              | 6.1             | NS              | 5.3             | NS              | 5.4             |
| Barium                     | mg/Kg          | 108            | NS              | 113             | NS              | 73.3            | NS              | 91              |
| Beryllium                  | mg/Kg          | 0.58 J         | NS              | 0.44 J          | NS              | 0.63 J          | NS              | 0.68 J          |
| Cadmium                    | mg/Kg          | 7.8            | NS              | 1.5             | NS              | 0.61 U          | NS              | 0.58 U          |
| Calcium                    | mg/Kg          | 38500          | NS              | 37500           | NS              | 9720            | NS              | 38300           |
| Chromium                   | mg/Kg          | 35.1           | NS              | 32              | NS              | 35.8            | NS              | 25.1            |
| Cobalt                     | mg/Kg          | 10.9 J         | NS              | 9               | NS              | 12.3            | NS              | 11.8            |
| Copper                     | mg/Kg          | 88.1           | NS              | 224             | NS              | 24.2            | NS              | 27.9            |
| Iron                       | mg/Kg          | 60800          | NS              | 48700           | NS              | 28700           | NS              | 26100           |
| Lead                       | mg/Kg          | 150            | NS              | 250             | NS              | 21.1            | NS              | 31.8            |
| Magnesium                  | mg/Kg          | 7940           | NS              | 9020            | NS              | 6190            | NS              | 9120            |
| Manganese                  | mg/Kg          | 792            | NS              | 585             | NS              | 634             | NS              | 583             |
| Mercury                    | mg/Kg          | 0.26           | NS              | 0.65            | NS              | 0.04 J          | NS              | 0.07            |
| Nickel                     | mg/Kg          | 42.8           | NS              | 35.3            | NS              | 48.6            | NS              | 37.7            |
| Potassium                  | mg/Kg          | 1440           | NS              | 1340            | NS              | 1220            | NS              | 982             |
| Selenium                   | mg/Kg          | 0.77 J         | NS              | 1.1 J           | NS              | 0.7 J           | NS              | 0.58 J          |
| Silver                     | mg/Kg          | 1.8 J          | NS              | 2.4             | NS              | 0.63 U          | NS              | 0.8 U           |
| Sodium                     | mg/Kg          | 127 J          | NS              | 1010            | NS              | 58.9 U          | NS              | 136 J           |
| Thallium                   | mg/Kg          | 0.85 U         | NS              | 0.59 U          | NS              | 0.44 U          | NS              | 0.37 U          |
| Vanadium                   | mg/Kg          | 26.1           | NS              | 18.2            | NS              | 22.9            | NS              | 25.1            |
| Zinc                       | mg/Kg          | 1710           | NS              | 525             | NS              | 75.7            | NS              | 102             |
| Cyanide                    | mg/Kg          | 0.77 U         | NS              | 0.74 U          | NS              | 0.75 U          | NS              | 0.74 U          |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION DEPTH (FT.) | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL      |
|----------------------------|-----------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|
|                            |                             | B-44     | B-44     | B-44     | B-44     | B-45     | B-45     | B-45     | B-45      |
|                            |                             | 8-10     | 8-10     | 12-13.5  | 12-13.5  | 0-2      | 2-4      | 4-6      | 4-6       |
|                            | DATE                        | 12/10/92 | 12/10/92 | 12/10/92 | 12/10/92 | 04/28/93 | 04/28/93 | 04/28/93 | 04/28/93  |
|                            | ES ID                       | B44B-3   | B44B-3RE | B44B-4   | B44B-4RE | B45-1    | B45-2    | B45-3    | B45-6     |
|                            | LAB ID                      | 176016   | 176016R1 | 176017   | 176017R1 | 183170   | 183171   | 183172   | 183173    |
|                            | UNITS                       |          |          |          |          |          |          |          | DUP B45-3 |
| VOCs                       |                             |          |          |          |          |          |          |          |           |
| Chloromethane              | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Bromomethane               | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Vinyl Chloride             | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Chloroethane               | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Methylene Chloride         | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 1 J       |
| Acetone                    | µg/Kg                       | 45       | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Carbon Disulfide           | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 1,1-Dichloroethene         | µg/Kg                       | 12 U     | NS       | 14       | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 1,1-Dichloroethane         | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 1,2-Dichloroethene (total) | µg/Kg                       | 2 J      | NS       | 36       | NS       | 3 J      | 3 J      | 210 J    | 4 J       |
| Chloroform                 | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 1,2-Dichloroethane         | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 2-Butanone                 | µg/Kg                       | 6 J      | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 1,1,1-Trichloroethane      | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Carbon Tetrachloride       | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Vinyl acetate              | µg/Kg                       | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS        |
| Bromodichloromethane       | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 1,2-Dichloropropane        | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| cis-1,3-Dichloropropene    | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Trichloroethene            | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 71 J      |
| Dibromochloromethane       | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 1,1,2-Trichloroethane      | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Benzene                    | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| trans-1,3-Dichloropropene  | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Bromoform                  | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 4-Methyl-2-Pentanone       | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 2-Hexanone                 | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Tetrachloroethene          | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| 1,1,2,2-Tetrachloroethane  | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Toluene                    | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Chlorobenzene              | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Ethylbenzene               | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Styrene                    | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |
| Xylene (total)             | µg/Kg                       | 12 U     | NS       | 11 U     | NS       | 12 U     | 12 U     | 12 U     | 12 U      |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX LOCATION<br>DEPTH (FT.) | SOIL  | SOIL  | SOIL   | SOIL   | SOIL  | SOIL  | SOIL  | SOIL  |
|------------------------------|--------------------------------|---|---|--|--|---|---|---|---|
|                              |                                | B-44<br>8-10<br>DATE<br>12/10/92<br>ES ID<br>B44B-3<br>LAB ID<br>176016 | B-44<br>8-10<br>DATE<br>12/10/92<br>ES ID<br>B44B-3RE<br>LAB ID<br>176016R1 | B-44<br>12-13.5<br>DATE<br>12/10/92<br>ES ID<br>B44B-4<br>LAB ID<br>176017 | B-44<br>12-13.5<br>DATE<br>12/10/92<br>ES ID<br>B44B-4RE<br>LAB ID<br>176017R1 | B-45<br>0-2<br>DATE<br>04/28/93<br>ES ID<br>B45-1<br>LAB ID<br>183170 | B-45<br>2-4<br>DATE<br>04/28/93<br>ES ID<br>B45-2<br>LAB ID<br>183171 | B-45<br>4-6<br>DATE<br>04/28/93<br>ES ID<br>B45-3<br>LAB ID<br>183172 | B-45<br>4-6<br>DATE<br>04/28/93<br>ES ID<br>B45-6<br>LAB ID<br>183173 |
| VOCs                         |                                |   |   |  |  |   |   |   |   |
| SemiVolatiles                |                                |   |   |  |  |   |   |   |   |
| Phenol                       | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| bis(2-Chloroethyl) ether     | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2-Chlorophenol               | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 1,3-Dichlorobenzene          | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 1,4-Dichlorobenzene          | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Benzyl alcohol               | NS                             | NS  | NS  | NS   | NS   | NS  | NS  | NS  | NS  |
| 1,2-Dichlorobenzene          | µg/Kg                          | 360 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2-Methylphenol               | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 4-Methylphenol               | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| N-Nitroso-di-n-propylamine   | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Hexachloroethane             | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Nitrobenzene                 | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Isophorone                   | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2-Nitrophenol                | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2,4-Dimethylphenol           | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Benzic acid                  | µg/Kg                          | NS  | NS  | NS   | NS   | NS  | NS  | NS  | NS  |
| bis(2-Chloroethoxy) methane  | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2,4-Dichlorophenol           | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 1,2,4-Trichlorobenzene       | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Naphthalene                  | µg/Kg                          | 87 J  | 86 J  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 4-Chloroaniline              | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Hexachlorobutadiene          | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 4-Chloro-3-methylphenol      | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2-Methylnaphthalene          | µg/Kg                          | 33 J  | 48 J  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Hexachlorocyclopentadiene    | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2,4,6-Trichlorophenol        | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2,4,5-Trichlorophenol        | µg/Kg                          | 930 UJ  | 950 UJ  | 860 UJ   | 870 UJ   | 1000 U  | 1000 U  | 930 U   | 970 U   |
| 2-Chloronaphthalene          | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2-Nitroaniline               | µg/Kg                          | 930 UJ  | 950 UJ  | 860 UJ   | 870 UJ   | 1000 U  | 1000 U  | 930 U   | 970 U   |
| Dimethylphthalate            | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Acenaphthylene               | µg/Kg                          | 380 UJ  | 44 J  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2,6-Dinitrotoluene           | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 3-Nitroaniline               | µg/Kg                          | 930 UJ  | 950 UJ  | 860 UJ   | 870 UJ   | 1000 U  | 1000 U  | 930 U   | 970 U   |
| Acenaphthene                 | µg/Kg                          | 120 J   | 140 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2,4-Dinitrophenol            | µg/Kg                          | 930 UJ  | 950 UJ  | 860 UJ   | 870 UJ   | 1000 U  | 1000 U  | 930 U   | 970 U   |
| 4-Nitrophenol                | µg/Kg                          | 930 UJ  | 950 UJ  | 860 UJ   | 870 UJ   | 1000 U  | 1000 U  | 930 U   | 970 U   |
| Dibenzofuran                 | µg/Kg                          | 47 J  | 69 J  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 2,4-Dinitrotoluene           | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Diethylphthalate             | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 4-Chlorophenyl-phenyl ether  | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Fluorene                     | µg/Kg                          | 89 J  | 130 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 4-Nitroaniline               | µg/Kg                          | 930 UJ  | 950 UJ  | 860 UJ   | 870 UJ   | 1000 U  | 1000 U  | 930 U   | 970 U   |
| 4,6-Dinitro-2-methylphenol   | µg/Kg                          | 930 UJ  | 950 UJ  | 860 UJ   | 870 UJ   | 1000 U  | 1000 U  | 930 U   | 970 U   |
| N-Nitrosodiphenylamine       | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 4-Bromophenyl-phenyl ether   | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Hexachlorobenzene            | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Pentachlorophenol            | µg/Kg                          | 930 UJ  | 950 UJ  | 860 UJ   | 870 UJ   | 1000 U  | 1000 U  | 930 U   | 970 U   |
| Phenanthrene                 | µg/Kg                          | 640 J   | 1000 J  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Anthracene                   | µg/Kg                          | 140 J   | 360 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Carbazole                    | µg/Kg                          | 780 J   | 540 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Di-n-butylphthalate          | µg/Kg                          | 72 J  | 390 UJ  | 73 J   | 360 UJ   | 430 U   | 25 J  | 140 J   | 42 J  |
| Fluoranthene                 | µg/Kg                          | 700 J   | 1200 J  | 360 UJ   | 13 J   | 430 U   | 410 U   | 380 U   | 400 U   |
| Pyrene                       | µg/Kg                          | 560 J   | 1200 J  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Butylbenzylphthalate         | µg/Kg                          | 360 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| 3,3'-Dichlorobenzidine       | µg/Kg                          | 380 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Benzo(a)anthracene           | µg/Kg                          | 340 J   | 550 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Chrysene                     | µg/Kg                          | 370 J   | 660 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| bis(2-Ethylhexyl)phthalate   | µg/Kg                          | 400 J   | 740 J   | 470 J  | 860 J  | 260 J   | 320 J   | 450   | 530   |
| Di-n-octylphthalate          | µg/Kg                          | 360 UJ  | 390 UJ  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Benzo(b)fluoranthene         | µg/Kg                          | 360 J   | 610 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Benzo(k)fluoranthene         | µg/Kg                          | 300 J   | 490 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Benzo(a)pyrene               | µg/Kg                          | 270 J   | 460 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Indeno(1,2,3-cd)pyrene       | µg/Kg                          | 170 J   | 150 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Dibenz(a,h)anthracene        | µg/Kg                          | 63 J  | 22 J  | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |
| Benzo(g,h,i)perylene         | µg/Kg                          | 90 J  | 120 J   | 360 UJ   | 360 UJ   | 430 U   | 410 U   | 380 U   | 400 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH(FT.) | SOIL B-44 8-10 12/10/92 | SOIL B-44 8-10 12/10/92 | SOIL B-44 12-13.5 12/10/92 | SOIL B-44 12-13.5 12/10/92 | SOIL B-45 0-2 04/28/93 | SOIL B-45 2-4 04/28/93 | SOIL B-45 4-6 04/28/93 | SOIL B-45 4-6 04/28/93 |
|----------------------------|-------------------------|-------------------------|----------------------------|----------------------------|------------------------|------------------------|------------------------|------------------------|
| ES ID                      | B44B-3                  | B44B-3RE                | B44B-4                     | B44B-4RE                   | B45-1                  | B45-2                  | B45-3                  | B45-6                  |
| LAB ID                     | 176016                  | 176016R1                | 176017                     | 176017R1                   | 183170                 | 183171                 | 183172                 | 183173                 |
| COMPOUND                   | UNITS                   |                         |                            |                            |                        |                        |                        | DUP B45-3              |
| <b>VOCs</b>                |                         |                         |                            |                            |                        |                        |                        |                        |
| <b>Pesticides/PCBs</b>     |                         |                         |                            |                            |                        |                        |                        |                        |
| alpha-BHC                  | µg/Kg                   | 2 U                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| beta-BHC                   | µg/Kg                   | 2 U                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| delta-BHC                  | µg/Kg                   | 2 U                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| gamma-BHC (Lindane)        | µg/Kg                   | 2 U                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| Heptachlor                 | µg/Kg                   | 2 U                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| Aldrin                     | µg/Kg                   | 2 U                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| Heptachlor epoxide         | µg/Kg                   | 2 U                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| Endosulfan I               | µg/Kg                   | 2 U                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| Dieldrin                   | µg/Kg                   | 3.9 U                   | NS                         | 3.6 U                      | NS                     | 4.3 U                  | 4.2 U                  | 4 U                    |
| 4,4'-DDE                   | µg/Kg                   | 7.3 J                   | NS                         | 3.6 U                      | NS                     | 4.3 U                  | 4.2 U                  | 4 U                    |
| Endrin                     | µg/Kg                   | 3.9 U                   | NS                         | 3.6 U                      | NS                     | 4.3 U                  | 4.2 U                  | 4 U                    |
| Endosulfan II              | µg/Kg                   | 3.9 U                   | NS                         | 3.6 U                      | NS                     | 4.3 U                  | 4.2 U                  | 4 U                    |
| 4,4'-DDD                   | µg/Kg                   | 3.8 J                   | NS                         | 3.6 U                      | NS                     | 4.3 U                  | 4.2 U                  | 4 U                    |
| Endosulfan sulfate         | µg/Kg                   | 3.9 U                   | NS                         | 3.6 U                      | NS                     | 4.3 U                  | 4.2 U                  | 4 U                    |
| 4,4'-DDT                   | µg/Kg                   | 5.8                     | NS                         | 3.6 U                      | NS                     | 4.3 U                  | 4.2 U                  | 4 U                    |
| Methoxychlor               | µg/Kg                   | 20 U                    | NS                         | 19 U                       | NS                     | 22 U                   | 20 U                   | 21 U                   |
| Endrin ketone              | µg/Kg                   | 3.9 U                   | NS                         | 3.6 U                      | NS                     | 4.3 U                  | 4.2 U                  | 4 U                    |
| Endrin aldehyde            | µg/Kg                   | 3.9 U                   | NS                         | 3.6 U                      | NS                     | 4.3 U                  | 4.2 U                  | 4 U                    |
| alpha-Chlordane            | µg/Kg                   | 3 J                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| gamma-Chlordane            | µg/Kg                   | 2 U                     | NS                         | 1.9 U                      | NS                     | 2.2 U                  | 2.2 U                  | 2.1 U                  |
| Toxaphene                  | µg/Kg                   | 200 U                   | NS                         | 190 U                      | NS                     | 220 U                  | 200 U                  | 210 U                  |
| Aroclor-1016               | µg/Kg                   | 39 U                    | NS                         | 36 U                       | NS                     | 43 U                   | 42 U                   | 40 U                   |
| Aroclor-1221               | µg/Kg                   | 60 U                    | NS                         | 73 U                       | NS                     | 88 U                   | 85 U                   | 82 U                   |
| Aroclor-1232               | µg/Kg                   | 39 U                    | NS                         | 36 U                       | NS                     | 43 U                   | 42 U                   | 40 U                   |
| Aroclor-1242               | µg/Kg                   | 39 U                    | NS                         | 36 U                       | NS                     | 43 U                   | 42 U                   | 40 U                   |
| Aroclor-1248               | µg/Kg                   | 39 U                    | NS                         | 36 U                       | NS                     | 43 U                   | 42 U                   | 40 U                   |
| Aroclor-1254               | µg/Kg                   | 39 U                    | NS                         | 36 U                       | NS                     | 43 U                   | 42 U                   | 40 U                   |
| Aroclor-1260               | µg/Kg                   | 39 U                    | NS                         | 36 U                       | NS                     | 43 U                   | 42 U                   | 40 U                   |
| <b>Herbicides</b>          |                         |                         |                            |                            |                        |                        |                        |                        |
| 2,4-D                      | µg/Kg                   | 59 U                    | NS                         | 55 U                       | NS                     | 68 U                   | 64 U                   | 62 U                   |
| 2,4-DB                     | µg/Kg                   | 59 U                    | NS                         | 55 U                       | NS                     | 68 U                   | 64 U                   | 62 U                   |
| 2,4,5-T                    | µg/Kg                   | 5.9 U                   | NS                         | 5.5 U                      | NS                     | 6.8 U                  | 6.4 U                  | 6.2 U                  |
| 2,4,5-TP (Silvex)          | µg/Kg                   | 5.9 U                   | NS                         | 5.5 U                      | NS                     | 6.8 U                  | 6.4 U                  | 6.2 U                  |
| Dalapon                    | µg/Kg                   | 140 U                   | NS                         | 130 U                      | NS                     | 170 U                  | 160 U                  | 150 U                  |
| Dicamba                    | µg/Kg                   | 5.9 U                   | NS                         | 5.5 U                      | NS                     | 6.8 U                  | 6.4 U                  | 6.2 U                  |
| Dichloroprop               | µg/Kg                   | 59 U                    | NS                         | 55 U                       | NS                     | 68 U                   | 64 U                   | 62 U                   |
| Dinoseb                    | µg/Kg                   | 30 U                    | NS                         | 27 U                       | NS                     | 34 U                   | 32 U                   | 31 U                   |
| MCPA                       | µg/Kg                   | 5900 U                  | NS                         | 5500 U                     | NS                     | 6800 U                 | 6400 U                 | 6200 U                 |
| MCPP                       | µg/Kg                   | 5900 U                  | NS                         | 5500 U                     | NS                     | 6800 U                 | 6400 U                 | 6200 U                 |
| <b>Metals</b>              |                         |                         |                            |                            |                        |                        |                        |                        |
| Aluminum                   | mg/Kg                   | 9850                    | NS                         | 15400                      | NS                     | 19700                  | 14800                  | 16900                  |
| Antimony                   | mg/Kg                   | 12.1 UJ                 | NS                         | 11.9 UJ                    | NS                     | 5.3 UJ                 | 5.4 UJ                 | 5.7 UJ                 |
| Arsenic                    | mg/Kg                   | 5.1                     | NS                         | 4.7                        | NS                     | 4.6                    | 5.2                    | 5.8                    |
| Barium                     | mg/Kg                   | 58.5                    | NS                         | 59.3                       | NS                     | 114                    | 71.4                   | 87.1                   |
| Beryllium                  | mg/Kg                   | 0.53 J                  | NS                         | 0.72 J                     | NS                     | 0.96 J                 | 0.73 J                 | 0.84 J                 |
| Cadmium                    | mg/Kg                   | 0.69 U                  | NS                         | 0.66 U                     | NS                     | 0.39 U                 | 0.39 U                 | 0.41 U                 |
| Calcium                    | mg/Kg                   | 44500                   | NS                         | 7280                       | NS                     | 4670                   | 16300                  | 2690                   |
| Chromium                   | mg/Kg                   | 17.6                    | NS                         | 26.9                       | NS                     | 31.2                   | 23.3                   | 25.5                   |
| Cobalt                     | mg/Kg                   | 9.1 J                   | NS                         | 13.7                       | NS                     | 16.8                   | 12.7                   | 13.7                   |
| Copper                     | mg/Kg                   | 29.6                    | NS                         | 16.2                       | NS                     | 31.6                   | 27.7                   | 19.5                   |
| Iron                       | mg/Kg                   | 20600                   | NS                         | 32100                      | NS                     | 39300                  | 30200                  | 34400                  |
| Lead                       | mg/Kg                   | 192                     | NS                         | 8.6                        | NS                     | 11.1                   | 10.5                   | 5.9                    |
| Magnesium                  | mg/Kg                   | 8820                    | NS                         | 6280                       | NS                     | 7320                   | 6770                   | 5960                   |
| Manganese                  | mg/Kg                   | 415                     | NS                         | 511                        | NS                     | 1020                   | 621                    | 601                    |
| Mercury                    | mg/Kg                   | 0.07 J                  | NS                         | 0.03 J                     | NS                     | 0.05 U                 | 0.04 U                 | 0.03 U                 |
| Nickel                     | mg/Kg                   | 30.8                    | NS                         | 39.5                       | NS                     | 50                     | 37.9                   | 44.9                   |
| Potassium                  | mg/Kg                   | 1060 J                  | NS                         | 1110                       | NS                     | 1320                   | 1130                   | 925 J                  |
| Selenium                   | mg/Kg                   | 0.54 J                  | NS                         | 0.59 J                     | NS                     | 0.18 U                 | 0.2 U                  | 0.16 U                 |
| Silver                     | mg/Kg                   | 0.71 U                  | NS                         | 0.71 U                     | NS                     | 0.83 U                 | 0.84 U                 | 0.89 U                 |
| Sodium                     | mg/Kg                   | 160 J                   | NS                         | 65.8 U                     | NS                     | 98.6 U                 | 100 U                  | 106 U                  |
| Thallium                   | mg/Kg                   | 0.37 U                  | NS                         | 0.48 U                     | NS                     | 0.53 U                 | 0.59 U                 | 0.51 U                 |
| Vanadium                   | mg/Kg                   | 17.4                    | NS                         | 19.7                       | NS                     | 29.8                   | 21.3                   | 19.7                   |
| Zinc                       | mg/Kg                   | 83.9                    | NS                         | 107                        | NS                     | 86.6                   | 94.1                   | 108                    |
| Cyanide                    | mg/Kg                   | 0.67 U                  | NS                         | 0.68 U                     | NS                     | 0.61 U                 | 0.77 U                 | 0.74 U                 |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION DEPTH(FT.) | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|----------------------------|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                            |                            | B-46     | B-46     | B-46     | B-46     | B-46     | B-46     | B-47     | B-47     |
| VOCs                       | DATE                       | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 |
|                            | ES ID                      | B46-1    | B46-1RE  | B46-2    | B46-3    | B46-4    | B47-1    | B47-1RE  | B47-2    |
|                            | LAB ID                     | 183303   | 183303R1 | 183304   | 183305   | 183306   | 183307   | 183307R1 | 183308   |
| UNITS                      |                            |          |          |          |          |          |          |          |          |
| Chloromethane              | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Bromomethane               | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Vinyl Chloride             | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Chloroethane               | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Methylene Chloride         | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Acetone                    | µg/Kg                      | 12 U     | NS       | 100      | 75       | 12 U     | 10 UJ    | 10 UJ    | 42       |
| Carbon Disulfide           | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| 1,1-Dichloroethane         | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 13       |
| 1,1-Dichloroethane         | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| 1,2-Dichloroethane (total) | µg/Kg                      | 12 U     | NS       | 2 J      | 12 U     | 12 U     | 2 J      | 1 J      | 170      |
| Chloroform                 | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| 1,2-Dichloroethane         | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| 2-Butanone                 | µg/Kg                      | 12 U     | NS       | 22       | 17       | 12 U     | 10 UJ    | 10 UJ    | 7 J      |
| 1,1,1-Trichloroethane      | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Carbon Tetrachloride       | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Vinyl acetate              | µg/Kg                      | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Bromodichloromethane       | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| 1,2-Dichloropropane        | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| cis-1,3-Dichloropropene    | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Trichloroethene            | µg/Kg                      | 12 U     | NS       | 3 J      | 1 J      | 12 U     | 110 J    | 39 J     | 2 J      |
| Dibromochloromethane       | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| 1,1,2-Trichloroethane      | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Benzene                    | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| trans-1,3-Dichloropropene  | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Bromoform                  | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| 4-Methyl-2-Pentanone       | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| 2-Hexanone                 | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Tetrachloroethene          | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| 1,1,2,2-Tetrachloroethane  | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Toluene                    | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 4 J      | 2 J      | 12 U     |
| Chlorobenzene              | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Ethylbenzene               | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Styrene                    | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |
| Xylene (total)             | µg/Kg                      | 12 U     | NS       | 12 U     | 12 U     | 12 U     | 10 UJ    | 10 UJ    | 12 U     |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|------------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                              | LOCATION   | B-46     | B-46     | B-46     | B-46     | B-46     | B-46     | B-47     | B-47     | B-47     |
| VOCs                         | DEPTH(FT.) | 0-2      | 0-2      | 2-4      | 4-6      | 6-7.1    | 0-2      | 0-2      | 0-2      | 2-4      |
| Semivolatiles                | DATE       | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 |
|                              | ES ID      | B46-1    | B46-1RE  | B46-2    | B46-3    | B46-4    | B47-1    | B47-1RE  | B47-2    | B47-2    |
|                              | LAB ID     | 183303   | 183303R1 | 183304   | 183305   | 183306   | 183307   | 183307R1 | 183308   | 183308   |
| UNITS                        |            |          |          |          |          |          |          |          |          |          |
| Phenol                       | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| bis(2-Chloroethyl) ether     | µg/Kg      | 360 UJ   | 360 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2-Chlorophenol               | µg/Kg      | 380 UJ   | 360 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 1,3-Dichlorobenzene          | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 1,4-Dichlorobenzene          | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Benzyl alcohol               | NS         | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dichlorobenzene          | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2-Methylphenol               | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 4-Methylphenol               | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| N-Nitroso-d-n-propylamine    | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Hexachloroethane             | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Nitrobenzene                 | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Isophorone                   | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2-Nitrophenol                | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2,4-Dimethylphenol           | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Benzic acid                  | NS         | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| bis(2-Chloroethoxy) methane  | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2,4-Dichlorophenol           | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 1,2,4-Trichlorobenzene       | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Naphthalene                  | µg/Kg      | 21 J     | 20 J     | 39 J     | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 4-Chloroaniline              | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Hexachlorobutadiene          | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 4-Chloro-3-methylphenol      | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2-Methylnaphthalene          | µg/Kg      | 360 UJ   | 380 UJ   | 70 J     | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Hexachlorocyclopentadiene    | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2,4,6-Trichlorophenol        | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2,4,5-Trichlorophenol        | µg/Kg      | 880 UJ   | 880 UJ   | 920 U    | 900 U    | 920 U    | 840 U    | NS       | NS       | 930 U    |
| 2-Chloronaphthalene          | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2-Nitroaniline               | µg/Kg      | 880 UJ   | 880 UJ   | 920 U    | 900 U    | 920 U    | 840 U    | NS       | NS       | 930 U    |
| Dimethylphthalate            | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Acenaphthylene               | µg/Kg      | 42 J     | 32 J     | 27 J     | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2,6-Dinitrotoluene           | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 3-Nitroaniline               | µg/Kg      | 880 UJ   | 880 UJ   | 920 U    | 900 U    | 920 U    | 840 U    | NS       | NS       | 930 U    |
| Acenaphthene                 | µg/Kg      | 38 J     | 38 J     | 160 J    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2,4-Dinitrophenol            | µg/Kg      | 880 UJ   | 880 UJ   | 920 U    | 900 U    | 920 U    | 840 U    | NS       | NS       | 930 U    |
| 4-Nitrophenol                | µg/Kg      | 880 UJ   | 880 UJ   | 920 U    | 900 U    | 920 U    | 840 U    | NS       | NS       | 930 U    |
| Dibenzofuran                 | µg/Kg      | 18 J     | 18 J     | 130 J    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 2,4-Dinitrotoluene           | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Diethylphthalate             | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 4-Chlorophenyl-phenyl ether  | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Fluorene                     | µg/Kg      | 39 J     | 41 J     | 280 J    | 22 J     | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 4-Nitroaniline               | µg/Kg      | 880 UJ   | 880 UJ   | 920 U    | 900 U    | 920 U    | 840 U    | NS       | NS       | 930 U    |
| 4,6-Dinitro-2-methylphenol   | µg/Kg      | 880 UJ   | 880 UJ   | 920 U    | 900 U    | 920 U    | 840 U    | NS       | NS       | 930 U    |
| N-Nitrosodiphenylamine       | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 4-Bromophenyl-phenyl ether   | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Hexachlorobenzene            | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Pentachlorophenol            | µg/Kg      | 880 UJ   | 880 UJ   | 920 U    | 900 U    | 920 U    | 840 U    | NS       | NS       | 930 U    |
| Phenanthrene                 | µg/Kg      | 530 J    | 520 J    | 1100 J   | 91 J     | 380 U    | 90 J     | NS       | NS       | 380 U    |
| Anthracene                   | µg/Kg      | 140 J    | 130 J    | 340 J    | 32 J     | 380 U    | 18 J     | NS       | NS       | 380 U    |
| Carbazole                    | µg/Kg      | 50 J     | 42 J     | 93 J     | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Di-n-butylphthalate          | µg/Kg      | 88 J     | 82 J     | 87 J     | 66 J     | 170 J    | 180 J    | NS       | NS       | 280 J    |
| Fluoranthene                 | µg/Kg      | 1100 J   | 900 J    | 900      | 180 J    | 18 J     | 170 J    | NS       | NS       | 28 J     |
| Pyrene                       | µg/Kg      | 1200 J   | 1300 J   | 830      | 130 J    | 380 U    | 140 J    | NS       | NS       | 23 J     |
| Butylbenzylphthalate         | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| 3,3'-Dichlorobenzidine       | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Benzo(a)anthracene           | µg/Kg      | 640 J    | 640 J    | 330 J    | 68 J     | 380 U    | 70 J     | NS       | NS       | 380 U    |
| Chrysene                     | µg/Kg      | 670 J    | 660 J    | 300 J    | 64 J     | 380 U    | 91 J     | NS       | NS       | 22 J     |
| bis(2-Ethylhexyl)phthalate   | µg/Kg      | 190 J    | 190 J    | 220 J    | 200 J    | 340 J    | 340 J    | NS       | NS       | 580      |
| Di-n-octylphthalate          | µg/Kg      | 360 UJ   | 380 UJ   | 380 U    | 370 U    | 29 J     | 350 U    | NS       | NS       | 27 J     |
| Benzo(b)fluoranthene         | µg/Kg      | 560 J    | 560 J    | 210 J    | 55 J     | 380 U    | 67 J     | NS       | NS       | 380 U    |
| Benzo(k)fluoranthene         | µg/Kg      | 540 J    | 600 J    | 240 J    | 53 J     | 380 U    | 52 J     | NS       | NS       | 18 J     |
| Benzo(a)pyrene               | µg/Kg      | 880 J    | 670 J    | 270 J    | 68 J     | 380 U    | 52 J     | NS       | NS       | 380 U    |
| Indeno(1,2,3-cd)pyrene       | µg/Kg      | 410 J    | 400 J    | 140 J    | 40 J     | 380 U    | 31 J     | NS       | NS       | 380 U    |
| Dibenz(a,h)anthracene        | µg/Kg      | 120 J    | 75 J     | 30 J     | 370 U    | 380 U    | 350 U    | NS       | NS       | 380 U    |
| Benzo(g,h,i)perylene         | µg/Kg      | 200 J    | 200 J    | 71 J     | 23 J     | 380 U    | 21 J     | NS       | NS       | 380 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL B-46 | SOIL B-46 | SOIL B-46 | SOIL B-46 | SOIL B-46 | SOIL B-46 | SOIL B-47 | SOIL B-47 | SOIL B-47 |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DEPTH(FT.)             | 0-2       | 0-2       | 2-4       | 4-6       | 6-7.1     | 0-2       | 0-2       | 2-4       | 2-4       |
| DATE                   | 04/29/93  | 04/29/93  | 04/29/93  | 04/29/93  | 04/29/93  | 04/29/93  | 04/29/93  | 04/29/93  | 04/29/93  |
| ES ID                  | B46-1     | B46-1RE   | B46-2     | B46-3     | B46-4     | B47-1     | B47-1RE   | B47-2     | B47-2     |
| LAB ID                 | 183303    | 183303R1  | 183304    | 183305    | 183306    | 183307    | 183307R1  | 183308    | 183308    |
| UNITS                  |           |           |           |           |           |           |           |           |           |
| <b>COMPOUND</b>        |           |           |           |           |           |           |           |           |           |
| <b>VOCs</b>            |           |           |           |           |           |           |           |           |           |
| <b>Pesticides/PCBs</b> |           |           |           |           |           |           |           |           |           |
| alpha-BHC              | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 1.9 U     | 1.9 U     | 1.8 U     | NS        | 2 U       |
| beta-BHC               | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 1.9 U     | 1.9 U     | 1.8 U     | NS        | 2 U       |
| delta-BHC              | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 1.9 U     | 1.9 U     | 1.8 U     | NS        | 2 U       |
| gamma-BHC (Lindane)    | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 1.9 U     | 1.9 U     | 1.8 U     | NS        | 2 U       |
| Heptachlor             | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 1.9 U     | 1.9 U     | 1.8 U     | NS        | 2 U       |
| Aldrin                 | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 1.9 U     | 1.9 U     | 1.8 U     | NS        | 2 U       |
| Heptachlor epoxide     | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 1.9 U     | 1.9 U     | 1.8 U     | NS        | 2 U       |
| Endosulfan I           | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 0.95 J    | 1.9 U     | 3.1       | NS        | 2 U       |
| Dieldrin               | µg/Kg     | 18 U      | NS        | 3.8 U     | 3.6 U     | 3.8 U     | 3.4 U     | NS        | 3.9 U     |
| 4,4'-DDE               | µg/Kg     | 45        | NS        | 3.7 J     | 6.6       | 3.8 U     | 240 J     | NS        | 4.4       |
| Endrin                 | µg/Kg     | 18 U      | NS        | 3.8 U     | 3.6 U     | 3.8 U     | 3.4 U     | NS        | 3.9 U     |
| Endosulfan II          | µg/Kg     | 18 U      | NS        | 3.8 U     | 3.6 U     | 3.8 U     | 3.4 U     | NS        | 3.9 U     |
| 4,4'-DDD               | µg/Kg     | 42 J      | NS        | 3.8 U     | 1.8 J     | 3.8 U     | 3.4 U     | NS        | 3.9 U     |
| Endosulfan sulfate     | µg/Kg     | 18 U      | NS        | 3.8 U     | 3.6 U     | 3.8 U     | 3.4 U     | NS        | 3.9 U     |
| 4,4'-DDT               | µg/Kg     | 160       | NS        | 2.2 J     | 3 J       | 3.8 U     | 23        | NS        | 3.9 U     |
| Methoxychlor           | µg/Kg     | 93 U      | NS        | 19 U      | 19 U      | 19 U      | 18 U      | NS        | 20 U      |
| Endrin ketone          | µg/Kg     | 18 U      | NS        | 3.8 U     | 3.6 U     | 3.8 U     | 3.4 U     | NS        | 3.9 U     |
| Endrin aldehyde        | µg/Kg     | 18 U      | NS        | 3.8 U     | 3.6 U     | 3.8 U     | 3.4 U     | NS        | 3.9 U     |
| alpha-Chlordane        | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 1.9 U     | 1.9 U     | 1.8 U     | NS        | 2 U       |
| gamma-Chlordane        | µg/Kg     | 9.3 U     | NS        | 1.9 U     | 1.9 U     | 1.9 U     | 1.8 U     | NS        | 2 U       |
| Toxaphene              | µg/Kg     | 930 U     | NS        | 190 U     | 190 U     | 190 U     | 180 U     | NS        | 200 U     |
| Aroclor-1016           | µg/Kg     | 180 U     | NS        | 36 U      | 36 U      | 38 U      | 34 U      | NS        | 39 U      |
| Aroclor-1221           | µg/Kg     | 370 U     | NS        | 76 U      | 74 U      | 76 U      | 70 U      | NS        | 78 U      |
| Aroclor-1232           | µg/Kg     | 180 U     | NS        | 36 U      | 36 U      | 38 U      | 34 U      | NS        | 39 U      |
| Aroclor-1242           | µg/Kg     | 180 U     | NS        | 36 U      | 36 U      | 38 U      | 34 U      | NS        | 39 U      |
| Aroclor-1246           | µg/Kg     | 180 U     | NS        | 36 U      | 36 U      | 38 U      | 34 U      | NS        | 39 U      |
| Aroclor-1254           | µg/Kg     | 180 U     | NS        | 36 U      | 36 U      | 38 U      | 34 U      | NS        | 39 U      |
| Aroclor-1260           | µg/Kg     | 180 U     | NS        | 36 U      | 36 U      | 38 U      | 34 U      | NS        | 39 U      |
| <b>Herbicides</b>      |           |           |           |           |           |           |           |           |           |
| 2,4-D                  | µg/Kg     | 55 U      | NS        | 58 U      | 56 U      | 58 U      | 53 U      | NS        | 59 U      |
| 2,4-DB                 | µg/Kg     | 55 U      | NS        | 58 U      | 56 U      | 58 U      | 53 U      | NS        | 59 U      |
| 2,4,5-T                | µg/Kg     | 5.5 U     | NS        | 5.8 U     | 5.6 U     | 5.8 U     | 5.3 U     | NS        | 5.9 U     |
| 2,4,5-TP (Silvex)      | µg/Kg     | 5.5 U     | NS        | 5.8 U     | 5.6 U     | 5.8 U     | 5.3 U     | NS        | 5.9 U     |
| Dalapon                | µg/Kg     | 140 U     | NS        | 140 U     | 140 U     | 140 U     | 130 U     | NS        | 150 U     |
| Dicamba                | µg/Kg     | 5.5 U     | NS        | 5.8 U     | 5.6 U     | 5.8 U     | 5.3 U     | NS        | 5.9 U     |
| Dichloroprop           | µg/Kg     | 55 U      | NS        | 58 U      | 56 U      | 58 U      | 53 U      | NS        | 59 U      |
| Dinoseb                | µg/Kg     | 28 U      | NS        | 29 U      | 28 U      | 29 U      | 27 U      | NS        | 30 U      |
| MCPA                   | µg/Kg     | 5500 U    | NS        | 5600 U    | 5600 U    | 5800 U    | 5300 U    | NS        | 5900 U    |
| MCPP                   | µg/Kg     | 5500 U    | NS        | 5600 U    | 5600 U    | 5800 U    | 5300 U    | NS        | 5900 U    |
| <b>Metals</b>          |           |           |           |           |           |           |           |           |           |
| Aluminum               | mg/Kg     | 12100     | NS        | 15300     | 9600      | 14400     | 10100     | NS        | 17500     |
| Antimony               | mg/Kg     | 4.5 UJ    | NS        | 4.1 UJ    | 5.9 UJ    | 5.1 UJ    | 4 UJ      | NS        | 3.5 UJ    |
| Arsenic                | mg/Kg     | 4.8       | NS        | 7.3       | 4.7       | 3.9       | 3.1       | NS        | 4.8       |
| Barium                 | mg/Kg     | 109       | NS        | 96.4      | 69.9      | 66.4      | 55.6      | NS        | 79.3      |
| Beryllium              | mg/Kg     | 0.64 J    | NS        | 0.78      | 0.52 J    | 0.76 J    | 0.5 J     | NS        | 0.85      |
| Cadmium                | mg/Kg     | 0.33 U    | NS        | 0.3 U     | 0.54 J    | 0.37 U    | 0.29 U    | NS        | 0.28 U    |
| Calcium                | mg/Kg     | 39300     | NS        | 20200     | 172000    | 90500     | 69400     | NS        | 8640      |
| Chromium               | mg/Kg     | 16.7      | NS        | 28        | 15.3      | 24.1      | 19.9      | NS        | 26.3      |
| Cobalt                 | mg/Kg     | 13.3      | NS        | 12        | 7.3 J     | 11.7      | 9.9       | NS        | 16.4      |
| Copper                 | mg/Kg     | 19.8      | NS        | 34        | 19.2      | 18.7      | 30.3      | NS        | 21.6      |
| Iron                   | mg/Kg     | 24600     | NS        | 27200     | 16200     | 27700     | 22800     | NS        | 32700     |
| Lead                   | mg/Kg     | 45.4      | NS        | 64        | 19.1      | 8.7       | 40.9      | NS        | 12        |
| Magnesium              | mg/Kg     | 6520      | NS        | 6760      | 9270      | 10900     | 8850      | NS        | 5460      |
| Manganese              | mg/Kg     | 1570      | NS        | 526       | 445       | 898       | 370       | NS        | 942       |
| Mercury                | mg/Kg     | 0.05 J    | NS        | 0.07 J    | 0.05 J    | 0.04 U    | 0.06 J    | NS        | 0.05 U    |
| Nickel                 | mg/Kg     | 29.9      | NS        | 35.9      | 22.9      | 37        | 35.3      | NS        | 36.2      |
| Potassium              | mg/Kg     | 1330      | NS        | 1570      | 1440      | 1470      | 1170      | NS        | 973       |
| Selenium               | mg/Kg     | 0.14 U    | NS        | 0.2 U     | 0.54 J    | 0.2 U     | 0.15 U    | NS        | 0.2 U     |
| Silver                 | mg/Kg     | 0.71 U    | NS        | 0.65 U    | 0.92 U    | 0.8 U     | 0.63 U    | NS        | 0.58 U    |
| Sodium                 | mg/Kg     | 230 J     | NS        | 249 J     | 232 J     | 141 J     | 137 J     | NS        | 68 J      |
| Thallium               | mg/Kg     | 0.43 U    | NS        | 0.61 U    | 2.9 U     | 0.59 U    | 0.46 U    | NS        | 0.6 U     |
| Vanadium               | mg/Kg     | 18.9      | NS        | 23.1      | 17.3      | 19.1      | 15.4      | NS        | 22.3      |
| Zinc                   | mg/Kg     | 136       | NS        | 235       | 86.7      | 65.6      | 472       | NS        | 84.3      |
| Cyanide                | mg/Kg     | 0.56 U    | NS        | 0.56 U    | 0.55 U    | 0.57 U    | 0.53 U    | NS        | 0.71 U    |



SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX      | SOIL     | SOIL     | SOIL     | SOIL     | SOIL      |
|----------------------------|-------------|----------|----------|----------|----------|-----------|
|                            | LOCATION    | B-47     | B-48     | B-48     | B-48     | B-48      |
|                            | DEPTH (FT.) | 4-5.3    | 0-2      | 2-4      | 4-6      | 4-6       |
|                            | DATE        | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93  |
|                            | ES ID       | B47-3    | B48-1    | B48-2    | B48-3    | B48-6     |
|                            | LAB ID      | 183309   | 183310   | 183311   | 183312   | 183313    |
|                            | UNITS       |          |          |          |          | DUP B48-3 |
| <b>VOCs</b>                |             |          |          |          |          |           |
| Chloromethane              | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Bromomethane               | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Vinyl Chloride             | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Chloroethane               | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Methylene Chloride         | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Acetone                    | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Carbon Disulfide           | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 1,1-Dichloroethane         | µg/Kg       | 28 J     | 12 U     | 12 U     | 5 J      | 5 J       |
| 1,1-Dichloroethane         | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 1,2-Dichloroethane (total) | µg/Kg       | 650      | 12 U     | 12 U     | 110      | 130       |
| Chloroform                 | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 1,2-Dichloroethane         | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 2-Butanone                 | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 1,1,1-Trichloroethane      | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Carbon Tetrachloride       | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Vinyl acetate              | µg/Kg       | NS       | NS       | NS       | NS       | NS        |
| Bromodichloromethane       | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 1,2-Dichloropropane        | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| cis-1,3-Dichloropropene    | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Trichloroethene            | µg/Kg       | 96       | 75       | 10 J     | 200      | 200       |
| Dibromochloromethane       | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 1,1,2-Trichloroethane      | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Benzene                    | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| trans-1,3-Dichloropropene  | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Bromoform                  | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 4-Methyl-2-Pentanone       | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 2-Hexanone                 | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Tetrachloroethene          | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| 1,1,2,2-Tetrachloroethane  | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Toluene                    | µg/Kg       | 53 U     | 2 J      | 12 U     | 19 U     | 18 U      |
| Chlorobenzene              | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Ethylbenzene               | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Styrene                    | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |
| Xylene (total)             | µg/Kg       | 53 U     | 12 U     | 12 U     | 19 U     | 18 U      |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL     | SOIL     | SOIL     | SOIL     | SOIL      |       |
|------------------------------|----------|----------|----------|----------|-----------|-------|
| DEPTH(FT.)                   | B-47     | B-48     | B-48     | B-48     | B-48      |       |
| DATE                         | 04/29/93 | 0-2      | 2-4      | 4-6      | 4-6       |       |
| ES ID                        | B47-3    | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93  |       |
| LAB ID                       | B47-3    | B48-1    | B48-2    | B48-3    | B48-6     |       |
| UNITS                        | 183309   | 183310   | 183311   | 183312   | 183313    |       |
| COMPOUND                     |          |          |          |          | DUP B48-3 |       |
| VOCs                         |          |          |          |          |           |       |
| Semivolatiles                |          |          |          |          |           |       |
| Phenol                       | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| bis(2-Chloroethyl) ether     | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2-Chlorophenol               | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 1,3-Dichlorobenzene          | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 1,4-Dichlorobenzene          | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Benzyl alcohol               | µg/Kg    | NS       | NS       | NS       | NS        | NS    |
| 1,2-Dichlorobenzene          | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2-Methylphenol               | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2,2'-oxybis(1-Chloropropane) | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 4-Methylphenol               | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| N-Nitroso-di-n-propylamine   | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Hexachloroethane             | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Nitrobenzene                 | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Isophorone                   | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2-Nitrophenol                | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2,4-Dimethylphenol           | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Benzic acid                  | µg/Kg    | NS       | NS       | NS       | NS        | NS    |
| bis(2-Chloroethoxy) methane  | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2,4-Dichlorophenol           | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 1,2,4-Trichlorobenzene       | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Naphthalene                  | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 4-Chloroaniline              | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Hexachlorobutadiene          | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 4-Chloro-3-methylphenol      | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2-Methylnaphthalene          | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Hexachlorocyclopentadiene    | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2,4,6-Trichlorophenol        | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2,4,5-Trichlorophenol        | µg/Kg    | 880 U    | 1000 U   | 950 U    | 930 U     | 960 U |
| 2-Chloronaphthalene          | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2-Nitroaniline               | µg/Kg    | 880 U    | 1000 U   | 950 U    | 930 U     | 960 U |
| Dimethylphthalate            | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Acenaphthylene               | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2,6-Dinitrotoluene           | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 3-Nitroaniline               | µg/Kg    | 880 U    | 1000 U   | 950 U    | 930 U     | 960 U |
| Acenaphthene                 | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2,4-Dinitrophenol            | µg/Kg    | 880 U    | 1000 U   | 950 U    | 930 U     | 960 U |
| 4-Nitrophenol                | µg/Kg    | 880 U    | 1000 U   | 950 U    | 930 U     | 960 U |
| Dibenzofuran                 | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 2,4-Dinitrotoluene           | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Diethylphthalate             | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 4-Chlorophenyl-phenylether   | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Fluorene                     | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 4-Nitroaniline               | µg/Kg    | 880 U    | 1000 U   | 950 U    | 930 U     | 960 U |
| 4,6-Dinitro-2-methylphenol   | µg/Kg    | 880 U    | 1000 U   | 950 U    | 930 U     | 960 U |
| N-Nitrosodiphenylamine       | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 4-Bromophenyl-phenylether    | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Hexachlorobenzene            | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Pentachlorophenol            | µg/Kg    | 880 U    | 1000 U   | 950 U    | 930 U     | 960 U |
| Phenanthrene                 | µg/Kg    | 380 U    | 110 J    | 390 U    | 380 U     | 400 U |
| Anthracene                   | µg/Kg    | 380 U    | 21 J     | 390 U    | 380 U     | 400 U |
| Carbazole                    | µg/Kg    | 380 U    | 20 J     | 390 U    | 380 U     | 400 U |
| Di-n-butylphthalate          | µg/Kg    | 180 J    | 100 J    | 130 J    | 110 J     | 72 J  |
| Fluoranthene                 | µg/Kg    | 380 U    | 180 J    | 390 U    | 380 U     | 400 U |
| Pyrene                       | µg/Kg    | 380 U    | 130 J    | 390 U    | 380 U     | 400 U |
| Butylbenzylphthalate         | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| 3,3'-Dichlorobenzidine       | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Benzo(a)anthracene           | µg/Kg    | 380 U    | 76 J     | 390 U    | 380 U     | 400 U |
| Chrysene                     | µg/Kg    | 380 U    | 96 J     | 390 U    | 380 U     | 400 U |
| bis(2-Ethylhexyl)phthalate   | µg/Kg    | 250 J    | 320 J    | 520      | 240 J     | 170 J |
| Di-n-octylphthalate          | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Benzo(b)fluoranthene         | µg/Kg    | 380 U    | 93 J     | 390 U    | 380 U     | 400 U |
| Benzo(k)fluoranthene         | µg/Kg    | 380 U    | 85 J     | 390 U    | 380 U     | 400 U |
| Benzo(a)pyrene               | µg/Kg    | 380 U    | 75 J     | 390 U    | 380 U     | 400 U |
| Indeno(1,2,3-cd)pyrene       | µg/Kg    | 380 U    | 59 J     | 390 U    | 380 U     | 400 U |
| Dibenz(a,h)anthracene        | µg/Kg    | 380 U    | 410 U    | 390 U    | 380 U     | 400 U |
| Benzo(g,h,i)perylene         | µg/Kg    | 380 U    | 35 J     | 390 U    | 380 U     | 400 U |

SENECA ARMY DEPOT, ASH LANDFILL  
SOIL ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL     | SOIL     | SOIL     | SOIL     | SOIL      |
|------------------------|----------|----------|----------|----------|-----------|
| DEPTH(FT.)             | B-47     | B-48     | B-48     | B-48     | B-48      |
| DATE                   | 4-5.3    | 0-2      | 2-4      | 4-6      | 4-6       |
| ES ID                  | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93 | 04/29/93  |
| LAB ID                 | B47-3    | B48-1    | B48-2    | B48-3    | B48-6     |
| UNITS                  | 183309   | 183310   | 183311   | 183312   | 183313    |
| COMPOUND               |          |          |          |          | DUP B48-3 |
| <b>VOCs</b>            |          |          |          |          |           |
| <b>Pesticides/PCBs</b> |          |          |          |          |           |
| alpha-BHC              | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| beta-BHC               | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| delta-BHC              | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| gamma-BHC (Lindane)    | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| Heptachlor             | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| Aldrin                 | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| Heptachlor epoxide     | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| Endosulfan I           | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| Dieldrin               | µg/Kg    | 3.6 U    | 8.2 U    | 3.9 U    | 3.9 U     |
| 4,4'-DDE               | µg/Kg    | 3.6 U    | 70       | 5.4      | 5.8       |
| Endrin                 | µg/Kg    | 3.6 U    | 8.2 U    | 3.9 U    | 3.9 U     |
| Endosulfan II          | µg/Kg    | 3.6 U    | 8.2 U    | 3.9 U    | 3.9 U     |
| 4,4'-DDD               | µg/Kg    | 3.6 U    | 15 J     | 2.7 J    | 2.5 J     |
| Endosulfan sulfate     | µg/Kg    | 3.6 U    | 8.2 U    | 3.9 U    | 3.9 U     |
| 4,4'-DDT               | µg/Kg    | 3.6 U    | 26       | 2 J      | 4.9       |
| Methoxychlor           | µg/Kg    | 19 U     | 42 U     | 20 U     | 20 U      |
| Endrin ketone          | µg/Kg    | 3.6 U    | 8.2 U    | 3.9 U    | 3.9 U     |
| Endrin aldehyde        | µg/Kg    | 3.6 U    | 8.2 U    | 3.9 U    | 3.9 U     |
| alpha-Chlordane        | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| gamma-Chlordane        | µg/Kg    | 1.9 U    | 4.2 U    | 2 U      | 2 U       |
| Toxaphene              | µg/Kg    | 190 U    | 420 U    | 200 U    | 200 U     |
| Aroclor-1016           | µg/Kg    | 36 U     | 82 U     | 39 U     | 39 U      |
| Aroclor-1221           | µg/Kg    | 73 U     | 170 U    | 79 U     | 79 U      |
| Aroclor-1232           | µg/Kg    | 36 U     | 82 U     | 39 U     | 39 U      |
| Aroclor-1242           | µg/Kg    | 36 U     | 82 U     | 39 U     | 39 U      |
| Aroclor-1248           | µg/Kg    | 36 U     | 82 U     | 39 U     | 39 U      |
| Aroclor-1254           | µg/Kg    | 36 U     | 82 U     | 39 U     | 39 U      |
| Aroclor-1280           | µg/Kg    | 36 U     | 82 U     | 39 U     | 39 U      |
| <b>Herbicides</b>      |          |          |          |          |           |
| 2,4-D                  | µg/Kg    | 58 U     | 83 U     | 60 U     | 59 U      |
| 2,4-DB                 | µg/Kg    | 58 U     | 83 U     | 60 U     | 59 U      |
| 2,4,5-T                | µg/Kg    | 5.8 U    | 6.3 U    | 6 U      | 5.9 U     |
| 2,4,5-TP (Silvex)      | µg/Kg    | 5.8 U    | 6.3 U    | 6 U      | 5.9 U     |
| Dalapon                | µg/Kg    | 140 U    | 150 U    | 150 U    | 150 U     |
| Dicamba                | µg/Kg    | 5.8 U    | 6.3 U    | 6 U      | 5.9 U     |
| Dichloroprop           | µg/Kg    | 58 U     | 63 U     | 60 U     | 59 U      |
| Dinoseb                | µg/Kg    | 28 U     | 32 U     | 30 U     | 30 U      |
| MCPA                   | µg/Kg    | 5600 U   | 6300 U   | 6000 U   | 5900 U    |
| MCPP                   | µg/Kg    | 5600 U   | 6300 U   | 6000 U   | 5900 U    |
| <b>Metals</b>          |          |          |          |          |           |
| Aluminum               | mg/Kg    | 17300    | 10800    | 14000    | 12100     |
| Antimony               | mg/Kg    | 6.1 UJ   | 5.6 J    | 4.8 UJ   | 4.4 J     |
| Arsenic                | mg/Kg    | 3.2      | 4.9      | 4.9      | 4.9       |
| Barium                 | mg/Kg    | 68.8     | 82.2     | 115      | 50.6      |
| Beryllium              | mg/Kg    | 0.81 J   | 0.61 J   | 0.76 J   | 0.55 J    |
| Cadmium                | mg/Kg    | 0.44 U   | 0.34 J   | 0.35 U   | 1.3       |
| Calcium                | mg/Kg    | 37100    | 18200    | 3780     | 60100 J   |
| Chromium               | mg/Kg    | 31       | 21.8     | 21.2     | 19.9      |
| Cobalt                 | mg/Kg    | 12.6     | 9        | 13.3     | 11.4      |
| Copper                 | mg/Kg    | 23.3     | 48       | 28.1     | 24.1      |
| Iron                   | mg/Kg    | 33400    | 22700    | 26900    | 24800     |
| Lead                   | mg/Kg    | 6        | 82.5     | 15.5     | 8.4       |
| Magnesium              | mg/Kg    | 7330     | 4410     | 4310     | 8210      |
| Manganese              | mg/Kg    | 643      | 520      | 1290     | 571       |
| Mercury                | mg/Kg    | 0.05 U   | 0.1      | 0.04 U   | 0.04 U    |
| Nickel                 | mg/Kg    | 43.6     | 31.4     | 29.8     | 34.1      |
| Potassium              | mg/Kg    | 1420     | 1090     | 1540     | 1110      |
| Selenium               | mg/Kg    | 0.82 J   | 0.71 J   | 0.37 J   | 0.87 J    |
| Silver                 | mg/Kg    | 0.95 U   | 0.61 U   | 0.75 U   | 0.53 U    |
| Sodium                 | mg/Kg    | 187 J    | 75 J     | 89.8 U   | 176 J     |
| Thallium               | mg/Kg    | 0.51 U   | 0.54 U   | 0.62 U   | 0.62 U    |
| Vanadium               | mg/Kg    | 22.4     | 18.1     | 26.4     | 16.7      |
| Zinc                   | mg/Kg    | 74.9     | 308      | 115      | 103       |
| Cyanide                | mg/Kg    | 0.67 U   | 0.75 U   | 0.71 U   | 0.68 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX<br>LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE I   | PHASE I  | PHASE I   | PHASE II                                    | PHASE I                                       | PHASE I  | PHASE II                                    |
|----------------------------|--|---|--|---|---|---|--|---|
|                            |  | WATER<br>PT-10<br>01/08/92<br>PT-1(1)<br>182259 | WATER<br>PT-10<br>01/08/92<br>PT-10(2)<br>182188 | WATER<br>PT-10<br>01/08/92<br>PT-10(2) Filtered<br>182199 | WATER<br>PT10<br>06/23/93<br>PT10<br>187234 | WATER<br>PT-11<br>01/18/92<br>PT-11<br>182574 | WATER<br>PT-11<br>01/18/92<br>PT-11 Filtered<br>182593 | WATER<br>PT11<br>07/10/93<br>PT11<br>188728 |
| Chloromethane              | µg/L   | NS  | 10 U   | NS  | NS  | 10 U  | NS   | 10 U  |
| Bromomethane               | µg/L   | NS  | 10 U   | NS  | NS  | 10 U  | NS   | 10 U  |
| Vinyl Chloride             | µg/L   | NS  | 10 U   | NS  | NS  | 10 U  | NS   | 10 U  |
| Chloroethane               | µg/L   | NS  | 10 U   | NS  | NS  | 10 U  | NS   | 10 U  |
| Methylene Chloride         | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Acetone                    | µg/L   | NS  | 10 U   | NS  | NS  | 10 U  | NS   | 10 U  |
| Carbon Disulfide           | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| 1,1-Dichloroethene         | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| 1,1-Dichloroethane         | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| 1,2-Dichloroethene (total) | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Chloroform                 | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| 1,2-Dichloroethane         | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| 2-Butanone                 | µg/L   | NS  | 10 U   | NS  | NS  | 10 U  | NS   | 10 U  |
| 1,1,1-Trichloroethane      | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Carbon Tetrachloride       | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Vinyl Acetate              | µg/L   | NS  | 10 U   | NS  | NS  | 10 U  | NS   | NS  |
| Bromodichloromethane       | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| 1,2-Dichloropropane        | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| cis-1,3-Dichloropropene    | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Trichloroethene            | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Dibromochloromethane       | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| 1,1,2-Trichloroethane      | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Benzene                    | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| trans-1,3-Dichloropropene  | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Bromoform                  | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| 4-Methyl-2-Pentanone       | µg/L   | NS  | 10 U   | NS  | NS  | 10 U  | NS   | 10 U  |
| 2-Hexanone                 | µg/L   | NS  | 10 U   | NS  | NS  | 10 U  | NS   | 10 U  |
| Tetrachloroethene          | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| 1,1,2,2-Tetrachloroethane  | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Toluene                    | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Chlorobenzene              | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Ethylbenzene               | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Styrene                    | µg/L   | NS  | 5 U  | NS  | NS  | 5 U   | NS   | 10 U  |
| Xylene (total)             | µg/L   | NS  | 5 U  | NS  | NS  | 4 J   | NS   | 10 U  |

NOTE: "NS" = NOT SAMPLED

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX<br>LOCATION<br>DATE<br>ES ID<br>LAB ID<br>COMPOUND | PHASE I<br>WATER<br>PT-10<br>01/08/92<br>PT-1(1)<br>162259 | PHASE I<br>WATER<br>PT-10<br>01/08/92<br>PT-10(2)<br>162156 | PHASE I<br>WATER<br>PT-10<br>01/08/92<br>PT-10(2) Filtered<br>162199 | PHASE II<br>WATER<br>PT10<br>06/23/93<br>PT10<br>187234 | PHASE I<br>WATER<br>PT-11<br>01/15/92<br>PT-11<br>162674 | PHASE I<br>WATER<br>PT-11<br>01/15/92<br>PT-11 Filtered<br>162693 | PHASE II<br>WATER<br>PT11<br>07/10/93<br>PT11<br>166726 |
|---|--|---|--|---|--|---|---|
| VOC's (624.2)   |  |   |  |   |  |   |   |
| Dichlorodifluoromethane                                   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Chloromethane   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Vinyl Chloride  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Bromomethane  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Chloroethane  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Trichlorofluoromethane                                    | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,1-Dichloroethene  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Acetone   | µg/L   | NS  | NS   | 5 U   | NS   | NS  | NS  |
| Carbon Disulfide  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Methylene Chloride  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| trans-1,2-Dichloroethane                                  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,1-Dichloroethane  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 2,2-Dichloropropane                                       | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| cis-1,2-Dichloroethane                                    | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 2-Butanone  | µg/L   | NS  | NS   | 5 U   | NS   | NS  | NS  |
| Bromochloromethane  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Chloroform  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,1,1-Trichloroethane                                     | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Carbon Tetrachloride                                      | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,1-Dichloropropene                                       | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Benzene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,2-Dichloroethane  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Trichloroethene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,2-Dichloropropane                                       | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Dibromomethane  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Bromodichloromethane                                      | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| cis-1,3-Dichloropropene                                   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 4-Methyl-2-Pentanone                                      | µg/L   | NS  | NS   | 5 U   | NS   | NS  | NS  |
| Toluene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| trans-1,3-Dichloropropene                                 | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,1,2-Trichloroethane                                     | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Tetrachloroethene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,3-Dichloropropane                                       | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 2-Hexanone  | µg/L   | NS  | NS   | 5 U   | NS   | NS  | NS  |
| Dibromochloromethane                                      | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,2-Dibromoethane   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Chlorobenzene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,1,1,2-Tetrachloroethane                                 | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Ethylbenzene  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Styrene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Bromoform   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Isopropylbenzene  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Bromobenzene  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,1,2,2-Tetrachloroethane                                 | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,2,3-Trichloropropane                                    | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| n-Propylbenzene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 2-Chlorotoluene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 4-Chlorotoluene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,3,8-Trimethylbenzene                                    | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| tert-Butylbenzene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,2,4-Trimethylbenzene                                    | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| sec-Butylbenzene  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,3-Dichlorobenzene                                       | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,4-Dichlorobenzene                                       | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| p-Isopropyltoluene  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,2-Dichlorobenzene                                       | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| n-Butylbenzene  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,2-Dibromo-3-Chloropropane                               | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,2,4-Trichlorobenzene                                    | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Hexachlorobutadiene                                       | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Naphthalene   | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| 1,2,3-Trichlorobenzene                                    | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |
| Xylene (total)  | µg/L   | NS  | NS   | 0.5 U   | NS   | NS  | NS  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | PHASE I WATER | PHASE I WATER | PHASE I WATER     | PHASE II WATER | PHASE I WATER | PHASE I WATER  | PHASE II WATER |
|------------------------------|---------------|---------------|-------------------|----------------|---------------|----------------|----------------|
| DATE                         | PT-10         | PT-10         | PT-10             | PT10           | PT-11         | PT-11          | PT-11          |
| ES ID                        | 01/08/92      | 01/08/92      | 01/08/92          | 06/23/93       | 01/15/92      | 01/15/92       | 01/15/92       |
| LAB ID                       | PT-1 (1)      | PT-10(2)      | PT-10(2) Filtered | PT10           | PT-11         | PT-11 Filtered | PT-11          |
| UNITS                        | 152259        | 152156        | 152199            | 187234         | 152574        | 152593         | 188728         |
| SEMIVOLATILES                |               |               |                   |                |               |                |                |
| Phenol                       | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| bis(2-Chloroethyl) ether     | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2-Chlorophenol               | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 1,3-Dichlorobenzene          | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 1,4-Dichlorobenzene          | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Benzyl Alcohol               | µg/L          | 11 U          | 10 U              | NS             | NS            | 11 U           | NS             |
| 1,2-Dichlorobenzene          | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2-Methylphenol               | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| bis(2-Chloroisopropyl) ether | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 4-Methylphenol               | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| N-Nitrosodipropylamine       | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Hexachloroethane             | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Nitrobenzene                 | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Isophorone                   | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2-Nitrophenol                | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2,4-Dimethylphenol           | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Benzic acid                  | µg/L          | 54 U          | 52 U              | NS             | NS            | 55 U           | NS             |
| bis(2-Chloroethoxy) methane  | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2,4-Dichlorophenol           | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 1,2,4-Trichlorobenzene       | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Naphthalene                  | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 4-Chloroaniline              | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Hexachlorobutadiene          | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 4-Chloro-3-methylphenol      | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2-Methylnaphthalene          | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Hexachlorocyclopentadiene    | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2,4,6-Trichlorophenol        | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2,4,6-Trichlorophenol        | µg/L          | 54 U          | 52 U              | NS             | 25 U          | 55 U           | NS             |
| 2-Chloronaphthalene          | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2-Nitroaniline               | µg/L          | 54 U          | 52 U              | NS             | 25 U          | 55 U           | NS             |
| Dimethylphthalate            | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Acenaphthylene               | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2,6-Dinitrotoluene           | µg/L          | 11 U          | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 3-Nitroaniline               | µg/L          | NS            | 52 U              | NS             | 25 U          | 55 U           | NS             |
| Acenaphthene                 | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2,4-Dinitrophenol            | µg/L          | NS            | 52 U              | NS             | 25 U          | 55 U           | NS             |
| 4-Nitrophenol                | µg/L          | NS            | 52 U              | NS             | 25 U          | 55 U           | NS             |
| Dibenzofuran                 | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 2,4-Dinitrotoluene           | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Diethylphthalate             | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 4-Chlorophenyl-phenylether   | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Fluorene                     | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 4-Nitroaniline               | µg/L          | NS            | 52 U              | NS             | 25 U          | 55 U           | NS             |
| 4,6-Dinitro-2-methylphenol   | µg/L          | NS            | 52 U              | NS             | 25 U          | 55 U           | NS             |
| N-Nitrosodipropylamine (1)   | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 4-Bromophenyl-phenylether    | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Hexachlorobenzene            | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Pentachlorophenol            | µg/L          | NS            | 52 U              | NS             | 25 U          | 55 U           | NS             |
| Phenanthrene                 | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Anthracene                   | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Carbazole                    | µg/L          | NS            | NS                | NS             | 10 U          | NS             | NS             |
| Di-n-butylphthalate          | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Fluoranthene                 | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Pyrene                       | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Butylbenzylphthalate         | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| 3,3'-Dichlorobenzidine       | µg/L          | NS            | 21 U              | NS             | 10 U          | 22 U           | NS             |
| Benzo(a)anthracene           | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Chrysene                     | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| bis(2-Ethylhexyl)phthalate   | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Di-n-octylphthalate          | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Benzo(b)fluoranthene         | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Benzo(k)fluoranthene         | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Benzo(a)pyrene               | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Indeno(1,2,3-cd)pyrene       | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Dibenz(a,h)anthracene        | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |
| Benzo(g,h,i)perylene         | µg/L          | NS            | 10 U              | NS             | 10 U          | 11 U           | NS             |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | PHASE I WATER PT-10 01/08/92 PT-1(1) 152259 | PHASE I WATER PT-10 01/08/92 PT-10(2) 152158 | PHASE I WATER PT-10 01/08/92 PT-10(2) Filters d 152199 | PHASE II WATER 06/23/93 PT10 157234 | PHASE I WATER 01/15/92 PT-11 152574 | PHASE I WATER 01/15/92 PT-11 152593 | PHASE II WATER 07/10/93 PT11 158728 |
|-----------------------------------|---|--|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| COMPOUND UNITS                    |   |  |  |                                     |                                     |                                     |                                     |
| <b>PESTICIDES/PCBS</b>            |   |  |  |                                     |                                     |                                     |                                     |
| alpha-BHC                         | µg/L  | 0.058 U                                      | 0.05 U   | NS                                  | 0.05 U                              | 0.055 U                             | NS                                  |
| beta-BHC                          | µg/L  | 0.058 U                                      | 0.05 U   | NS                                  | 0.05 U                              | 0.055 U                             | NS                                  |
| delta-BHC                         | µg/L  | 0.055 U                                      | 0.05 U   | NS                                  | 0.05 U                              | 0.055 U                             | NS                                  |
| gamma-BHC (Lindane)               | µg/L  | 0.058 U                                      | 0.05 U   | NS                                  | 0.05 U                              | 0.055 U                             | NS                                  |
| Heptachlor                        | µg/L  | 0.058 U                                      | 0.05 U   | NS                                  | 0.05 U                              | 0.055 U                             | NS                                  |
| Aldrin                            | µg/L  | 0.058 U                                      | 0.05 U   | NS                                  | 0.05 U                              | 0.055 U                             | NS                                  |
| Heptachlor epoxide                | µg/L  | 0.058 U                                      | 0.05 U   | NS                                  | 0.05 U                              | 0.055 U                             | NS                                  |
| Endosulfan I                      | µg/L  | 0.058 U                                      | 0.05 U   | NS                                  | 0.05 U                              | 0.055 U                             | NS                                  |
| Dieldrin                          | µg/L  | 0.12 U                                       | 0.1 U  | NS                                  | 0.1 U                               | 0.11 U                              | NS                                  |
| 4,4'-DDE                          | µg/L  | 0.12 U                                       | 0.1 U  | NS                                  | 0.1 U                               | 0.11 U                              | NS                                  |
| Endrin                            | µg/L  | 0.12 U                                       | 0.1 U  | NS                                  | 0.1 U                               | 0.11 U                              | NS                                  |
| Endosulfan II                     | µg/L  | 0.12 U                                       | 0.1 U  | NS                                  | 0.1 U                               | 0.11 U                              | NS                                  |
| 4,4'-DDD                          | µg/L  | 0.12 U                                       | 0.1 U  | NS                                  | 0.1 U                               | 0.11 U                              | NS                                  |
| Endosulfan sulfate                | µg/L  | 0.12 U                                       | 0.1 U  | NS                                  | 0.1 U                               | 0.11 U                              | NS                                  |
| 4,4'-DDT                          | µg/L  | 0.12 U                                       | 0.1 U  | NS                                  | 0.1 U                               | 0.11 U                              | NS                                  |
| Methoxychlor                      | µg/L  | 0.58 U                                       | 0.5 U  | NS                                  | 0.5 U                               | 0.55 U                              | NS                                  |
| Endrin ketone                     | µg/L  | 0.12 U                                       | 0.1 U  | NS                                  | 0.1 U                               | 0.11 U                              | NS                                  |
| Endrin aldehyde                   | µg/L  | NS   | NS   | NS                                  | 0.1 U                               | NS                                  | NS                                  |
| alpha-Chlordane                   | µg/L  | 0.58 U                                       | 0.5 U  | NS                                  | 0.05 U                              | 0.55 U                              | NS                                  |
| gamma-Chlordane                   | µg/L  | 0.58 U                                       | 0.5 U  | NS                                  | 0.05 U                              | 0.55 U                              | NS                                  |
| Toxaphene                         | µg/L  | 1.2 U  | 1 U  | NS                                  | 5 U                                 | 1.1 U                               | NS                                  |
| Aroclor-1016                      | µg/L  | 0.58 U                                       | 0.5 U  | NS                                  | 1 U                                 | 0.55 U                              | NS                                  |
| Aroclor-1221                      | µg/L  | 0.58 U                                       | 0.5 U  | NS                                  | 2 U                                 | 0.55 U                              | NS                                  |
| Aroclor-1232                      | µg/L  | 0.58 U                                       | 0.5 U  | NS                                  | 1 U                                 | 0.55 U                              | NS                                  |
| Aroclor-1242                      | µg/L  | 0.58 U                                       | 0.5 U  | NS                                  | 1 U                                 | 0.55 U                              | NS                                  |
| Aroclor-1248                      | µg/L  | 0.58 U                                       | 0.5 U  | NS                                  | 1 U                                 | 0.55 U                              | NS                                  |
| Aroclor-1254                      | µg/L  | 1.2 U  | 1 U  | NS                                  | 1 U                                 | 1.1 U                               | NS                                  |
| Aroclor-1260                      | µg/L  | 1.2 U  | 1 U  | NS                                  | 1 U                                 | 1.1 U                               | NS                                  |
| <b>HERBICIDES</b>                 |   |  |  |                                     |                                     |                                     |                                     |
| 2,4-D                             | µg/L  | NS   | 1 U  | NS                                  | 1.1 U                               | 1.2 U                               | NS                                  |
| 2,4-DB                            | µg/L  | NS   | 1 U  | NS                                  | 1.1 U                               | 1.2 U                               | NS                                  |
| 2,4,5-T                           | µg/L  | NS   | 0.1 U  | NS                                  | 0.11 U                              | 0.1 U                               | NS                                  |
| 2,4,5-TP (Silvex)                 | µg/L  | NS   | 0.1 U  | NS                                  | 0.11 U                              | 0.1 U                               | NS                                  |
| Dalapon                           | µg/L  | NS   | 2.3 U  | NS                                  | 2.4 U                               | 2.7 U                               | NS                                  |
| Dicamba                           | µg/L  | NS   | 0.1 U  | NS                                  | 0.11 U                              | 0.1 U                               | NS                                  |
| Dichloroprop                      | µg/L  | NS   | 1 U  | NS                                  | 1.1 U                               | 1.2 U                               | NS                                  |
| Dinoseb                           | µg/L  | NS   | 0.5 U  | NS                                  | 0.51 U                              | 0.5 U                               | NS                                  |
| MCPA                              | µg/L  | NS   | 100 U  | NS                                  | 110 U                               | 120 U                               | NS                                  |
| MCPP                              | µg/L  | NS   | 100 U  | NS                                  | 110 U                               | 120 U                               | NS                                  |
| <b>METALS</b>                     |   |  |  |                                     |                                     |                                     |                                     |
| Aluminum                          | µg/L  | NS   | 59.1 U   | 24.4 U                              | 72 U                                | 2980                                | 24.4 U                              |
| Antimony                          | µg/L  | NS   | 55.9 U   | 53 U                                | 49.5 UJ                             | 53.3 U                              | 52.8 U                              |
| Arsenic                           | µg/L  | NS   | 3.5 J  | 3.5 U                               | 1.4 UJ                              | 3.5 U                               | 3.5 U                               |
| Barium                            | µg/L  | NS   | 198 J  | 203                                 | 183 J                               | 121 J                               | 77 J                                |
| Beryllium                         | µg/L  | NS   | 1.4 R  | 2.6 R                               | 0.89 U                              | 2 R                                 | 1.3 R                               |
| Cadmium                           | µg/L  | NS   | 2.9 U  | 3 U                                 | 2.8 U                               | 3 U                                 | 3 U                                 |
| Calcium                           | µg/L  | NS   | 88500 J  | 86900                               | 79100                               | 124000                              | 114000                              |
| Chromium                          | µg/L  | NS   | 8.2 U  | 6.2 U                               | 2.7 UJ                              | 6.8 J                               | 6.1 U                               |
| Cobalt                            | µg/L  | NS   | 20 U   | 20.3 U                              | 5.4 U                               | 20.5 U                              | 20.3 U                              |
| Copper                            | µg/L  | NS   | 14.5 U   | 10.1 U                              | 4.7 U                               | 10.2 U                              | 10.1 U                              |
| Iron                              | µg/L  | NS   | 109  | 8.9 U                               | 55.6 J                              | 3270                                | 6.8 U                               |
| Lead                              | µg/L  | NS   | 1.2 U  | 1.4 J                               | 0.79 U                              | 1.2 U                               | 1.2 U                               |
| Magnesium                         | µg/L  | NS   | 32700 J  | 39800                               | 34200                               | 37300                               | 33600                               |
| Manganese                         | µg/L  | NS   | 99.6   | 43.8                                | 124                                 | 59.1                                | 4.8 U                               |
| Mercury                           | µg/L  | NS   | 0.13 R   | 0.09 R                              | 0.09 UJ                             | 0.09 R                              | 0.1 R                               |
| Nickel                            | µg/L  | NS   | 16 U   | 14.7 U                              | 7.4 UJ                              | 14.8 U                              | 14.7 U                              |
| Potassium                         | µg/L  | NS   | 1300 J   | 1830 J                              | 2670 J                              | 3480 J                              | 1880 J                              |
| Selenium                          | µg/L  | NS   | 1 U  | 1 U                                 | 0.99 UJ                             | 1.3 U                               | 1 U                                 |
| Silver                            | µg/L  | NS   | 9.1 U  | 3.4 U                               | 5.4 U                               | 3.4 U                               | 3.4 U                               |
| Sodium                            | µg/L  | NS   | 37700 J  | 35900                               | 41100                               | 40300                               | 37600                               |
| Thallium                          | µg/L  | NS   | 3.2 U  | 3.2 U                               | 2.6 U                               | 3.2 U                               | 3.2 U                               |
| Vanadium                          | µg/L  | NS   | 30.5 U   | 9.4 U                               | 6.7 UJ                              | 9.5 U                               | 9.4 U                               |
| Zinc                              | µg/L  | NS   | 19.2 J   | 8.4 U                               | 5.8 J                               | 19.5 R                              | 8.4 U                               |
| Cyanide                           | µg/L  | NS   | 11.2 J   | NS                                  | 10 UJ                               | 10 U                                | NS                                  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | PHASE II WATER ASH 07/13/93 PT11 188806 | PHASE II WATER ASH 07/13/93 PT11 188796 | PHASE I WATER PT-12 01/17/92 PT11 182704 | PHASE I WATER PT-12 01/17/92 PT-12 Filtered 182711 | PHASE I WATER PT-12 01/17/92 PT-3(1) 182703 | PHASE I WATER PT-12 01/17/92 PT-3(1) Filtered 182710 | PHASE II WATER PT12 07/18/93 PT12 189112 |      |
|-----------------------------------|---|---|--|--|---|--|--|------|
| COMPOUND                          | UNITS                                   |   |  |  |   |  |  |      |
| Chloromethane                     | µg/L                                    | NS                                      | NS                                       | 10 U   | NS  | 10 U   | NS                                       | 10 U |
| Bromomethane                      | µg/L                                    | NS                                      | NS                                       | 10 U   | NS  | 10 U   | NS                                       | 10 U |
| Vinyl Chloride                    | µg/L                                    | NS                                      | NS                                       | 4 J  | NS  | 4 J  | NS                                       | 88   |
| Chloroethane                      | µg/L                                    | NS                                      | NS                                       | 10 U   | NS  | 10 U   | NS                                       | 10 U |
| Methylene Chloride                | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Acetone                           | µg/L                                    | NS                                      | NS                                       | 10 U   | NS  | 10 U   | NS                                       | 10 U |
| Carbon Disulfide                  | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| 1,1-Dichloroethane                | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 3 J  |
| 1,1-Dichloroethane                | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| 1,2-Dichloroethane (total)        | µg/L                                    | NS                                      | NS                                       | 180  | NS  | 200  | NS                                       | 1400 |
| Chloroform                        | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| 1,2-Dichloroethane                | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| 2-Butanone                        | µg/L                                    | NS                                      | NS                                       | 10 U   | NS  | 10 U   | NS                                       | 10 U |
| 1,1,1-Trichloroethane             | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Carbon Tetrachloride              | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Vinyl Acetate                     | µg/L                                    | NS                                      | NS                                       | 10 U   | NS  | 10 U   | NS                                       | NS   |
| Bromodichloromethane              | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| 1,2-Dichloropropane               | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| cis-1,3-Dichloropropene           | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Trichloroethene                   | µg/L                                    | NS                                      | NS                                       | 180  | NS  | 180  | NS                                       | 970  |
| Dibromochloromethane              | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| 1,1,2-Trichloroethane             | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Benzene                           | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| trans-1,3-Dichloropropene         | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Bromoform                         | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| 4-Methyl-2-Pentanone              | µg/L                                    | NS                                      | NS                                       | 10 U   | NS  | 10 U   | NS                                       | 10 U |
| 2-Hexanone                        | µg/L                                    | NS                                      | NS                                       | 10 U   | NS  | 10 U   | NS                                       | 10 U |
| Tetrachloroethane                 | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| 1,1,2,2-Tetrachloroethane         | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Toluene                           | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 2 J  |
| Chlorobenzene                     | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Ethylbenzene                      | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Styrene                           | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |
| Xylenes (total)                   | µg/L                                    | NS                                      | NS                                       | 8 U  | NS  | 8 U  | NS                                       | 10 U |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                    | MTRDX<br>LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE II                                   | PHASE II                                   | PHASE I                                       | PHASE I   | PHASE I   | PHASE I   | PHASE II                                    |
|-----------------------------|---|--|--|---|---|---|---|---|
|                             |   | WATER<br>ASH<br>07/13/93<br>PT11<br>188905 | WATER<br>ASH<br>07/13/93<br>PT11<br>188795 | WATER<br>PT-12<br>01/17/92<br>PT-12<br>152704 | WATER<br>PT-12<br>01/17/92<br>PT-12Filtered<br>182711 | WATER<br>PT-12<br>01/17/92<br>PT-3(1)<br>182703 | WATER<br>PT-12<br>01/17/92<br>PT-3(1)Filtered<br>182710 | WATER<br>PT12<br>07/16/93<br>PT12<br>169112 |
| VOC's (824.2)               |   |  |  |   |   |   |   |   |
| Dichlorodifluoromethane     | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Chloromethane               | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Vinyl Chloride              | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Bromomethane                | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Chloroethane                | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Trichlorofluoromethane      | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,1-Dichloroethane          | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Acetone                     | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Carbon Disulfide            | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Methylene Chloride          | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| trans-1,2-Dichloroethane    | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,1-Dichloroethane          | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 2,2-Dichloropropane         | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| cis-1,2-Dichloroethane      | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 2-Butanone                  | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Bromochloromethane          | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Chloroform                  | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,1,1-Trichloroethane       | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Carbon Tetrachloride        | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,1-Dichloropropene         | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Benzene                     | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,2-Dichloroethane          | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Trichloroethene             | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,2-Dichloropropane         | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Dibromomethane              | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Bromodichloromethane        | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| cis-1,3-Dichloropropene     | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 4-Methyl-2-Pentanone        | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Toluene                     | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| trans-1,3-Dichloropropene   | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,1,2-Trichloroethane       | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Tetrachloroethene           | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,3-Dichloropropane         | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 2-Hexanone                  | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Dibromochloromethane        | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,2-Dibromoethane           | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Chlorobenzene               | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,1,1,2-Tetrachloroethane   | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Ethylbenzene                | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Styrene                     | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Bromoform                   | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Isopropylbenzene            | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Bromobenzene                | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,1,2,2-Tetrachloroethane   | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,2,3-Trichloropropane      | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| n-Propylbenzene             | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 2-Chlorotoluene             | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 4-Chlorotoluene             | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,3,5-Trimethylbenzene      | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| tert-Butylbenzene           | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,2,4-Trimethylbenzene      | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| iso-Butylbenzene            | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,3-Dichlorobenzene         | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,4-Dichlorobenzene         | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| p-Isopropyltoluene          | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,2-Dichlorobenzene         | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| n-Butylbenzene              | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,2-Dibromo-3-Chloropropane | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,2,4-Trichlorobenzene      | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Hexachlorocyclohexadiene    | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Naphthalene                 | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| 1,2,3-Trichlorobenzene      | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |
| Xylene (total)              | µg/L  | NS   | NS   | NS  | NS  | NS  | NS  | NS  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | PHASE II WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER   | PHASE II WATER |      |
|------------------------------|----------------|----------------|---------------|---------------|---------------|-----------------|----------------|------|
| DATE                         | ASH            | ASH            | PT-12         | PT-12         | PT-12         | PT-12           | PT12           |      |
| ES ID                        | 07/13/93       | 07/13/93       | 01/17/92      | 01/17/92      | 01/17/92      | 01/17/92        | 07/15/93       |      |
| LAB ID                       | PT11           | PT11           | PT-12         | PT-12         | PT-3(1)       | PT-3(1)Filtered | PT12           |      |
| COMPOUND                     | 186805         | 186796         | 152704        | 152711        | 152703        | 152710          | 189112         |      |
| <b>SEMI-VOLATILES</b>        |                |                |               |               |               |                 |                |      |
| Phenol                       | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| bis(2-Chloroethyl) ether     | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2-Chlorophenol               | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 1,3-Dichlorobenzene          | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 1,4-Dichlorobenzene          | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Benzyl Alcohol               | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | NS   |
| 1,2-Dichlorobenzene          | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2-Methylphenol               | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| bis(2-Chloroisopropyl) ether | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 4-Methylphenol               | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| N-Nitroso-di-n-propylamine   | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Hexachloroethane             | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Nitrobenzene                 | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Isophorone                   | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2-Nitrophenol                | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2,4-Dimethylphenol           | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Benzoic acid                 | µg/L           | NS             | NS            | 55 U          | NS            | 55 U            | NS             | NS   |
| bis(2-Chloroethoxy) methane  | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2,4-Dichlorophenol           | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 1,2,4-Trichlorobenzene       | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Naphthalene                  | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 4-Chloroaniline              | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Hexachlorocyclopentadiene    | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 4-Chloro-3-methylphenol      | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2-Methylnaphthalene          | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Hexachlorocyclohexadiene     | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2,4,6-Trichlorophenol        | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2,4,6-Trichlorophenol        | µg/L           | NS             | NS            | 55 U          | NS            | 55 U            | NS             | 25 U |
| 2-Chloronaphthalene          | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2-Nitroaniline               | µg/L           | NS             | NS            | 55 U          | NS            | 55 U            | NS             | 25 U |
| Dimethylphthalate            | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Acenaphthylene               | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2,6-Dinitrotoluene           | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 3-Nitroaniline               | µg/L           | NS             | NS            | 55 U          | NS            | 55 U            | NS             | 25 U |
| Acenaphthene                 | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2,4-Dinitrophenol            | µg/L           | NS             | NS            | 55 U          | NS            | 55 U            | NS             | 25 U |
| 4-Nitrophenol                | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Dibenzofuran                 | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 2,4-Dinitrotoluene           | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Diethylphthalate             | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 4-Chlorophenyl-phenylether   | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Fluorene                     | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 4-Nitroaniline               | µg/L           | NS             | NS            | 55 U          | NS            | 55 U            | NS             | 25 U |
| 4,6-Dinitro-2-methylphenol   | µg/L           | NS             | NS            | 55 U          | NS            | 55 U            | NS             | 25 U |
| N-Nitrosodiphenylamine (1)   | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| 4-Bromophenyl-phenylether    | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Hexachlorobenzene            | µg/L           | NS             | NS            | 55 U          | NS            | 55 U            | NS             | 25 U |
| Pentachlorophenol            | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Phenanthrene                 | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Anthracene                   | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Carbazole                    | µg/L           | NS             | NS            | NS            | NS            | NS              | NS             | 10 U |
| Di-n-butylphthalate          | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 3 J  |
| Fluoranthene                 | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Pyrene                       | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Butylbenzylphthalate         | µg/L           | NS             | NS            | NS            | NS            | NS              | NS             | 10 U |
| 3,3'-Dichlorobenzidine       | µg/L           | NS             | NS            | 22 U          | NS            | 22 U            | NS             | 10 U |
| Benzo(a)anthracene           | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Chrysene                     | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| bis(2-Ethylhexyl)phthalate   | µg/L           | NS             | NS            | 30 U          | NS            | 11 U            | NS             | 10 U |
| Di-n-octylphthalate          | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Benzo(b)fluoranthene         | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Benzo(k)fluoranthene         | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Benzo(a)pyrene               | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Indeno(1,2,3-cd)pyrene       | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Dibenz(a,h)anthracene        | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |
| Benzo(g,h,i)perylene         | µg/L           | NS             | NS            | 11 U          | NS            | 11 U            | NS             | 10 U |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | PHASE II WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER   | PHASE II WATER |
|------------------------|----------------|----------------|---------------|---------------|---------------|---------------|-----------------|----------------|
| DATE                   | ASH            | ASH            | PT-12         | PT-12         | PT-12         | PT-12         | PT-12           | PT12           |
| ES ID                  | 07/13/93       | 07/10/93       | 01/17/92      | 01/17/92      | 01/17/92      | 01/17/92      | 01/17/92        | 07/15/93       |
| LAB ID                 | PT11           | PT11           | PT-12         | PT-12         | PT-3(1)       | PT-3(1)       | PT-3(1)Filtered | PT12           |
| UNITS                  | 188805         | 188795         | 152704        | 152711        | 152703        | 152703        | 152710          | 189112         |
| COMPOUND               |                |                |               |               |               |               |                 |                |
| <b>PESTICIDES/PCBS</b> |                |                |               |               |               |               |                 |                |
| alpha-BHC              | µg/L           | 0.05 UJ        | NS            | 0.053 U       | NS            | 0.056 U       | NS              | 0.05 U         |
| beta-BHC               | µg/L           | 0.05 UJ        | NS            | 0.053 U       | NS            | 0.056 U       | NS              | 0.05 U         |
| delta-BHC              | µg/L           | 0.05 UJ        | NS            | 0.053 U       | NS            | 0.056 U       | NS              | 0.05 U         |
| gamma-BHC (Lindane)    | µg/L           | 0.05 UJ        | NS            | 0.053 U       | NS            | 0.056 U       | NS              | 0.05 U         |
| Heptachlor             | µg/L           | 0.05 UJ        | NS            | 0.053 U       | NS            | 0.056 U       | NS              | 0.05 U         |
| Aldrin                 | µg/L           | 0.05 UJ        | NS            | 0.053 U       | NS            | 0.056 U       | NS              | 0.05 U         |
| Heptachlor epoxide     | µg/L           | 0.05 UJ        | NS            | 0.053 U       | NS            | 0.056 U       | NS              | 0.05 U         |
| Endosulfan I           | µg/L           | 0.05 UJ        | NS            | 0.053 U       | NS            | 0.056 U       | NS              | 0.05 U         |
| Dieldrin               | µg/L           | 0.1 UJ         | NS            | 0.11 U        | NS            | 0.12 U        | NS              | 0.1 U          |
| 4,4'-DOE               | µg/L           | 0.1 UJ         | NS            | 0.11 U        | NS            | 0.12 U        | NS              | 0.1 U          |
| Endrin                 | µg/L           | 0.1 UJ         | NS            | 0.11 U        | NS            | 0.12 U        | NS              | 0.1 U          |
| Endosulfan II          | µg/L           | 0.1 UJ         | NS            | 0.11 U        | NS            | 0.12 U        | NS              | 0.1 U          |
| 4,4'-DDD               | µg/L           | 0.1 UJ         | NS            | 0.11 U        | NS            | 0.12 U        | NS              | 0.1 U          |
| Endosulfan sulfate     | µg/L           | 0.1 UJ         | NS            | 0.11 U        | NS            | 0.12 U        | NS              | 0.1 U          |
| 4,4'-DDT               | µg/L           | 0.1 UJ         | NS            | 0.11 U        | NS            | 0.12 U        | NS              | 0.1 U          |
| Methoxychlor           | µg/L           | 0.8 UJ         | NS            | 0.53 U        | NS            | 0.56 U        | NS              | 0.5 U          |
| Endrin ketone          | µg/L           | 0.1 UJ         | NS            | 0.11 U        | NS            | 0.12 U        | NS              | 0.1 U          |
| Endrin aldehyde        | µg/L           | 0.1 UJ         | NS            | NS            | NS            | NS            | NS              | 0.1 U          |
| alpha-Chlordane        | µg/L           | 0.05 UJ        | NS            | 0.53 U        | NS            | 0.56 U        | NS              | 0.05 U         |
| gamma-Chlordane        | µg/L           | 0.05 UJ        | NS            | 0.53 U        | NS            | 0.56 U        | NS              | 0.05 U         |
| Toxaphene              | µg/L           | 5 UJ           | NS            | 1.1 U         | NS            | 1.2 U         | NS              | 5 U            |
| Aroclor-1016           | µg/L           | 1 UJ           | NS            | 0.53 U        | NS            | 0.56 U        | NS              | 1 U            |
| Aroclor-1221           | µg/L           | 2 UJ           | NS            | 0.53 U        | NS            | 0.56 U        | NS              | 2 U            |
| Aroclor-1232           | µg/L           | 1 UJ           | NS            | 0.53 U        | NS            | 0.56 U        | NS              | 1 U            |
| Aroclor-1242           | µg/L           | 1 UJ           | NS            | 0.53 U        | NS            | 0.56 U        | NS              | 1 U            |
| Aroclor-1248           | µg/L           | 1 UJ           | NS            | 0.53 U        | NS            | 0.56 U        | NS              | 1 U            |
| Aroclor-1254           | µg/L           | 1 UJ           | NS            | 1.1 U         | NS            | 1.2 U         | NS              | 1 U            |
| Aroclor-1260           | µg/L           | 1 UJ           | NS            | 1.1 U         | NS            | 1.2 U         | NS              | 1 U            |
| <b>HERBICIDES</b>      |                |                |               |               |               |               |                 |                |
| 2,4-D                  | µg/L           | NS             | 1 R           | 1.4 U         | NS            | 1 U           | NS              | 1.1 U          |
| 2,4-DB                 | µg/L           | NS             | 1 R           | 1.4 U         | NS            | 1 U           | NS              | 1.1 U          |
| 2,4,5-T                | µg/L           | NS             | 0.1 R         | 0.1 U         | NS            | 0.1 U         | NS              | 0.11 U         |
| 2,4,5-TP (Silvex)      | µg/L           | NS             | 0.1 R         | 0.1 U         | NS            | 0.1 U         | NS              | 0.11 U         |
| Dalapon                | µg/L           | NS             | 2.3 R         | 3.2 U         | NS            | 2.3 U         | NS              | 3.9            |
| Dicamba                | µg/L           | NS             | 0.1 R         | 0.1 U         | NS            | 0.1 U         | NS              | 0.11 U         |
| Dichloroprop           | µg/L           | NS             | 1 R           | 1.4 U         | NS            | 1 U           | NS              | 1.1 U          |
| Dinoseb                | µg/L           | NS             | 0.5 R         | 0.7 U         | NS            | 0.5 U         | NS              | 0.53 U         |
| MCPA                   | µg/L           | NS             | 100 R         | 140 U         | NS            | 100 U         | NS              | 110 U          |
| MCPP                   | µg/L           | NS             | 100 R         | 140 U         | NS            | 100 U         | NS              | 110 U          |
| <b>METALS</b>          |                |                |               |               |               |               |                 |                |
| Aluminum               | µg/L           | NS             | 3830          | 27300 J       | 24.5 U        | 18400 J       | 24.4 U          | 10100 J        |
| Antimony               | µg/L           | NS             | 49.7 U        | 53.2 U        | 53.2 U        | 53.1 U        | 53 U            | 49.9 U         |
| Arsenic                | µg/L           | NS             | 1.4 U         | 4.8 J         | 3.8 U         | 7.6 J         | 3.5 U           | 2.4 J          |
| Barium                 | µg/L           | NS             | 143 J         | 258           | 55.7          | 255           | 53.2            | 115 J          |
| Beryllium              | µg/L           | NS             | 0.55 U        | 2.3 R         | 1.1 U         | 1.9 R         | 1.1 U           | 0.9 U          |
| Cadmium                | µg/L           | NS             | 2.8 U         | 4.8 J         | 3 U           | 3.8 J         | 3 U             | 2.8 U          |
| Calcium                | µg/L           | NS             | 126000        | 274000 J      | 180000        | 248000 J      | 175000          | 266000         |
| Chromium               | µg/L           | NS             | 6.1 J         | 36.8          | 8.2 U         | 26.3          | 6.1 U           | 13.6 J         |
| Cobalt                 | µg/L           | NS             | 8.5 U         | 20.4 U        | 20.4 U        | 20.4 U        | 20.3 U          | 6.7 J          |
| Copper                 | µg/L           | NS             | 6.2 J         | 32.6          | 10.2 U        | 24.7 J        | 10.1 U          | 4.7 UJ         |
| Iron                   | µg/L           | NS             | 4370 J        | 36400 J       | 7 U           | 26900 J       | 6.9 U           | 14200 J        |
| Lead                   | µg/L           | NS             | 2.3 J         | 18.9 R        | 1.2 U         | 10 R          | 1.2 U           | 2.9 J          |
| Magnesium              | µg/L           | NS             | 36200         | 41800 J       | 20800         | 37000 J       | 20000           | 35800          |
| Manganese              | µg/L           | NS             | 191           | 1270 J        | 4.8 U         | 970 J         | 4.8 U           | 608            |
| Mercury                | µg/L           | NS             | 0.08 UJ       | 0.03 U        | 0.03 U        | 0.03 U        | 0.03 U          | 0.09 U         |
| Nickel                 | µg/L           | NS             | 7.4 U         | 48.3          | 14.7 U        | 30 J          | 14.7 U          | 18 J           |
| Potassium              | µg/L           | NS             | 3910 J        | 8120          | 1800 J        | 5690          | 1430 J          | 4900 J         |
| Selenium               | µg/L           | NS             | 1.6 U         | 1 U J         | 1.7 J         | 1.3 J         | 1 U             | 0.99 UJ        |
| Silver                 | µg/L           | NS             | 5.5 U         | 3.4 U         | 3.4 U         | 3.4 U         | 3.4 U           | 5.5 U          |
| Sodium                 | µg/L           | NS             | 33300         | 33800         | 34900         | 33800         | 27200           | 133000         |
| Thallium               | µg/L           | NS             | 2.6 U         | 3.2 U         | 3.2 U         | 3.2 U         | 3.2 U           | 2.8 U          |
| Vanadium               | µg/L           | NS             | 8.3 J         | 35.8 J        | 8.6 U         | 25.3 J        | 8.4 U           | 14.5 J         |
| Zinc                   | µg/L           | NS             | 31.4          | 201 J         | 22.3 R        | 158 J         | 24.5            | 66.1 R         |
| Cyanide                | µg/L           | NS             | 4.3 J         | 10 U J        | NS            | 10 U J        | NS              | 4.1 J          |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX<br>LOCATION         | DATE     | ES ID | LAB ID | COMPOUND<br>UNIT# | PHASE II       | PHASE I        | PHASE I        | PHASE I        | PHASE I        | PHASE I        | PHASE I        |
|----------------------------|----------|-------|--------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                            |          |       |        |                   | WATER<br>PT-12 | WATER<br>PT-15 | WATER<br>PT-15 | WATER<br>PT-15 | WATER<br>PT-15 | WATER<br>PT-15 | WATER<br>PT-15 |
|                            | 07/13/93 |       |        |                   | 01/10-13/92    | 01/10-13/92    | 01/10-13/92    | 1/10-13/92     | 1/10-13/92     | 1/10-13/92     | 01/11/92       |
|                            | PT12     |       |        |                   | PT-15          | PT-15          | PT-15          | PT-15          | PT-15          | PT-15          | PT-15          |
|                            | 189113   |       |        |                   | 152157         | 152167         | 152167         | 152411         | 152411         | 152280         | 152293         |
| Chloromethane              | µg/L     | NS    |        |                   | NS             | 10 U           | NS             | NS             | NS             | NS             | NS             |
| Bromomethane               | µg/L     | NS    |        |                   | NS             | 10 U           | NS             | NS             | NS             | NS             | NS             |
| Vinyl Chloride             | µg/L     | NS    |        |                   | NS             | 10 U           | NS             | NS             | NS             | NS             | NS             |
| Chloroethane               | µg/L     | NS    |        |                   | NS             | 10 U           | NS             | NS             | NS             | NS             | NS             |
| Methylene Chloride         | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Acetone                    | µg/L     | NS    |        |                   | NS             | 10 U           | NS             | NS             | NS             | NS             | NS             |
| Carbon Disulfide           | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| 1,1-Dichloroethene         | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| 1,1-Dichloroethane         | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| 1,2-Dichloroethene (total) | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Chloroform                 | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| 1,2-Dichloroethane         | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| 2-Butanone                 | µg/L     | NS    |        |                   | NS             | 10 U           | NS             | NS             | NS             | NS             | NS             |
| 1,1,1-Trichloroethane      | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Carbon Tetrachloride       | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Vinyl Acetate              | µg/L     | NS    |        |                   | NS             | 10 U           | NS             | NS             | NS             | NS             | NS             |
| Bromodichloromethane       | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| 1,2-Dichloropropane        | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| cis-1,3-Dichloropropene    | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Trichloroethene            | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Dibromochloromethane       | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| 1,1,2-Trichloroethane      | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Benzene                    | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| trans-1,3-Dichloropropene  | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Bromoform                  | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| 4-Methyl-2-Pentanone       | µg/L     | NS    |        |                   | NS             | 10 U           | NS             | NS             | NS             | NS             | NS             |
| 2-Hexanone                 | µg/L     | NS    |        |                   | NS             | 10 U           | NS             | NS             | NS             | NS             | NS             |
| Tetrachloroethene          | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| 1,1,2,2-Tetrachloroethane  | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Toluene                    | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Chlorobenzene              | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Ethylbenzene               | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Styrene                    | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |
| Xylene (total)             | µg/L     | NS    |        |                   | NS             | 5 U            | NS             | NS             | NS             | NS             | NS             |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION             | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER |
|-----------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| DATE                        | PT12           | PT-18         | PT-18         | PT-18         | PT-18         | PT-18         | PT-18         | PT-18         |
| ES ID                       | 07/13/93       | 01/10-13/92   | 01/10-13/92   | 01/10-13/92   | 1/10-13/92    | 1/10-13/92    | 1/10-13/92    | 01/11/92      |
| LAB ID                      | PT12           | PT-18         | PT-18         | PT-18         | PT-18         | PT-18RE(4)    | PT-18         | PT-18         |
| COMPOUND                    | UNITS          | 189113        | 182187        | 182187        | 182411        | 182411        | 182260        | 182293        |
| VOC's (B24.2)               |                |               |               |               |               |               |               |               |
| Dichlorodifluoromethane     | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Chloromethane               | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Vinyl Chloride              | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Bromomethane                | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Chloroethane                | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Trichlorofluoromethane      | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,1-Dichloroethene          | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Acetone                     | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Carbon Disulfide            | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Methylene Chloride          | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| trans-1,2-Dichloroethene    | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,1-Dichloroethane          | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 2,2-Dichloropropane         | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| cis-1,2-Dichloroethene      | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 2-Butanone                  | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Bromochloromethane          | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Chloroform                  | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,1,1-Trichloroethane       | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Carbon Tetrachloride        | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,1-Dichloropropene         | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Benzene                     | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dichloroethane          | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Trichloroethene             | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dichloropropane         | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Dibromomethane              | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Bromodichloromethane        | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| cis-1,3-Dichloropropene     | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 4-Methyl-2-Pentanone        | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Toluene                     | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| trans-1,3-Dichloropropene   | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,1,2-Trichloroethane       | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Tetrachloroethane           | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,3-Dichloropropane         | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 2-Hexanone                  | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Dibromochloromethane        | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dibromoethane           | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Chlorobenzene               | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,1,1,2-Tetrachloroethane   | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Ethylbenzene                | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Styrene                     | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Bromoform                   | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Isopropylbenzene            | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Bromobenzene                | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,1,2,2-Tetrachloroethane   | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,2,3-Trichloropropane      | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| n-Propylbenzene             | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 2-Chlorotoluene             | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 4-Chlorotoluene             | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,3,5-Trimethylbenzene      | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| tert-Butylbenzene           | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,2,4-Trimethylbenzene      | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| sec-Butylbenzene            | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,3-Dichlorobenzene         | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,4-Dichlorobenzene         | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| p-Isopropyltoluene          | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dichlorobenzene         | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| n-Butylbenzene              | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dibromo-3-Chloropropane | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,2,4-Trichlorobenzene      | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Hexachlorocyclopentadiene   | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Naphthalene                 | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| 1,2,3-Trichlorobenzene      | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |
| Xylene (total)              | µg/L           | NS            | NS            | NS            | NS            | NS            | NS            | NS            |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE II | PHASE I     | PHASE I     | PHASE I    | PHASE I    | PHASE I  | PHASE I     |
|------------------------------|---|----------|-------------|-------------|------------|------------|----------|-------------|
|                              |   | WATER    | WATER       | WATER       | WATER      | WATER      | WATER    | WATER       |
|                              |   | PT-12    | PT-15       | PT-15       | PT-15      | PT-15      | PT-15    | PT-15       |
|                              |   | 07/13/93 | 01/10-13/92 | 01/10-13/92 | 1/10-13/92 | 1/10-13/92 | 01/11/92 | 01/10-13/92 |
|                              | 189113  | 152157   | 152167      | 152411      | 152411     | 152250     | 152293   |             |
| SEMIVOLATILES                |   |          |             |             |            |            |          |             |
| Phenol                       | µg/L  | N9       | 12 U        | N6          | N5         | N9         | N9       | N5          |
| bis(2-Chloroethyl) ether     | µg/L  | N9       | 12 U        | N5          | N9         | N9         | N9       | N5          |
| 2-Chlorophenol               | µg/L  | N9       | 12 U        | N5          | N6         | N9         | N9       | N5          |
| 1,3-Dichlorobenzene          | µg/L  | N9       | 12 U        | N6          | N9         | N9         | N9       | N5          |
| 1,4-Dichlorobenzene          | µg/L  | N9       | 12 U        | N5          | N9         | N9         | N9       | N5          |
| Benzyl Alcohol               | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 1,2-Dichlorobenzene          | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2-Methylphenol               | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| bis(2-Chloroisopropyl) ether | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N6          |
| 4-Methylphenol               | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| N-Nitroso-D-n-propylamine    | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Hexachloroethane             | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Nitrobenzene                 | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Isophorone                   | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2-Nitrophenol                | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2,4-Dimethylphenol           | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Benzic acid                  | µg/L  | N9       | 90 U        | N9          | N9         | N9         | N9       | N5          |
| bis(2-Chloroethoxy) methane  | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2,4-Dichlorophenol           | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 1,2,4-Trichlorobenzene       | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Naphthalene                  | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 4-Chloroaniline              | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Hexachlorobutadiene          | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 4-Chloro-3-methylphenol      | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2-Methylnaphthalene          | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Hexachlorocyclopentadiene    | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2,4,6-Trichlorophenol        | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2,4,6-Trichlorophenol        | µg/L  | N9       | 90 U        | N9          | N9         | N9         | N9       | N5          |
| 2-Chloronaphthalene          | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2-Nitroaniline               | µg/L  | N9       | 90 U        | N9          | N9         | N9         | N9       | N5          |
| Dimethylphthalate            | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Acenaphthylene               | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2,8-Dinitrofluorene          | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 3-Nitroaniline               | µg/L  | N9       | 90 U        | N9          | N9         | N9         | N9       | N5          |
| Acenaphthene                 | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2,6-Dinitrophenol            | µg/L  | N9       | 90 U        | N9          | N9         | N9         | N9       | N5          |
| 4-Nitrophenol                | µg/L  | N9       | 90 U        | N9          | N9         | N9         | N9       | N5          |
| Dibenzofuran                 | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 2,6-Dinitrofluorene          | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Diethylphthalate             | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 4-Chlorophenyl-phenylether   | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Fluorene                     | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 4-Nitroaniline               | µg/L  | N9       | 90 U        | N9          | N9         | N9         | N9       | N5          |
| 4,6-Dinitro-2-methylphenol   | µg/L  | N9       | 90 U        | N9          | N9         | N9         | N9       | N5          |
| N-Nitrosodiphenylamine (1)   | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 4-Bromophenyl-phenylether    | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Hexachlorobenzene            | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Pentachlorophenol            | µg/L  | N9       | 90 U        | N9          | N9         | N9         | N9       | N5          |
| Phenanthrene                 | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Anthracene                   | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Carbazole                    | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Di-n-butylphthalate          | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Fluoranthene                 | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Pyrene                       | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Butylbenzylphthalate         | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| 3,3'-Dichlorobenzidine       | µg/L  | N9       | 24 U        | N9          | N9         | N9         | N9       | N5          |
| Benzo(a)anthracene           | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Chrysene                     | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| bis(2-Ethylhexyl)phthalate   | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Di-n-octylphthalate          | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Benzo(b)fluoranthene         | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Benzo(k)fluoranthene         | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Benzo(a)pyrene               | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Indeno(1,2,3-cd)pyrene       | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Dibenz(a,h)anthracene        | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |
| Benzo(g,h,i)perylene         | µg/L  | N9       | 12 U        | N9          | N9         | N9         | N9       | N5          |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID UNITS | PHASE II WATER PT12 07/13/93 189113 | PHASE I WATER PT-18 01/10-13/92 182187 | PHASE I WATER PT-18 01/10-13/92 182187 | PHASE I WATER PT-18 1/10-13/92 182411 | PHASE I WATER PT-18 1/10-13/92 PT-18RE(4) 182411 | PHASE I WATER PT-18 01/11/92 PT-18 182260 | PHASE I WATER PT-18 01/10-13/92 PT-18RE(4) 182260 | PHASE I WATER PT-18 01/10-13/92 PT-18RE(4) 182260 |
|---|-------------------------------------|--|--|---------------------------------------|--|---|---|---|
| <b>PESTICIDES/PCBS</b>                  |                                     |  |  |                                       |  |   |   |   |
| alpha-BHC                               | µg/L                                | NS                                     | NS                                     | NS                                    | 0.06 U R   | 0.06 U J                                  | NS  | NS  |
| beta-BHC                                | µg/L                                | NS                                     | NS                                     | NS                                    | 0.06 U R   | 0.06 U J                                  | NS  | NS  |
| delta-BHC                               | µg/L                                | NS                                     | NS                                     | NS                                    | 0.06 U R   | 0.06 U J                                  | NS  | NS  |
| gamma-BHC (Lindane)                     | µg/L                                | NS                                     | NS                                     | NS                                    | 0.06 U R   | 0.06 U J                                  | NS  | NS  |
| Heptachlor                              | µg/L                                | NS                                     | NS                                     | NS                                    | 0.06 U R   | 0.06 U J                                  | NS  | NS  |
| Aldrin                                  | µg/L                                | NS                                     | NS                                     | NS                                    | 0.06 U R   | 0.06 U J                                  | NS  | NS  |
| Heptachlor epoxide                      | µg/L                                | NS                                     | NS                                     | NS                                    | 0.06 U R   | 0.06 U J                                  | NS  | NS  |
| Endosulfan I                            | µg/L                                | NS                                     | NS                                     | NS                                    | 0.06 U R   | 0.06 U J                                  | NS  | NS  |
| Dieldrin                                | µg/L                                | NS                                     | NS                                     | NS                                    | 0.1 U R  | 0.1 U J                                   | NS  | NS  |
| 4,4'-DDE                                | µg/L                                | NS                                     | NS                                     | NS                                    | 0.1 U R  | 0.1 U J                                   | NS  | NS  |
| Endrin                                  | µg/L                                | NS                                     | NS                                     | NS                                    | 0.1 U R  | 0.1 U J                                   | NS  | NS  |
| Endosulfan II                           | µg/L                                | NS                                     | NS                                     | NS                                    | 0.1 U R  | 0.1 U J                                   | NS  | NS  |
| 4,4'-DDD                                | µg/L                                | NS                                     | NS                                     | NS                                    | 0.1 U R  | 0.1 U J                                   | NS  | NS  |
| Endosulfan sulfate                      | µg/L                                | NS                                     | NS                                     | NS                                    | 0.1 U R  | 0.1 U J                                   | NS  | NS  |
| 4,4'-DDT                                | µg/L                                | NS                                     | NS                                     | NS                                    | 0.1 U R  | 0.1 U J                                   | NS  | NS  |
| Methoxychlor                            | µg/L                                | NS                                     | NS                                     | NS                                    | 0.5 U R  | 0.5 U J                                   | NS  | NS  |
| Endrin ketone                           | µg/L                                | NS                                     | NS                                     | NS                                    | 0.1 U R  | 0.1 U J                                   | NS  | NS  |
| Endrin aldehyde                         | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | NS  | NS  |
| alpha-Chlordane                         | µg/L                                | NS                                     | NS                                     | NS                                    | 0.5 U R  | 0.5 U J                                   | NS  | NS  |
| gamma-Chlordane                         | µg/L                                | NS                                     | NS                                     | NS                                    | 0.5 U R  | 0.5 U J                                   | NS  | NS  |
| Toxaphene                               | µg/L                                | NS                                     | NS                                     | NS                                    | 1 U R  | 1 U J                                     | NS  | NS  |
| Aroclor-1016                            | µg/L                                | NS                                     | NS                                     | NS                                    | 0.5 U R  | 0.5 U J                                   | NS  | NS  |
| Aroclor-1221                            | µg/L                                | NS                                     | NS                                     | NS                                    | 0.5 U R  | 0.5 U J                                   | NS  | NS  |
| Aroclor-1232                            | µg/L                                | NS                                     | NS                                     | NS                                    | 0.5 U R  | 0.5 U J                                   | NS  | NS  |
| Aroclor-1242                            | µg/L                                | NS                                     | NS                                     | NS                                    | 0.5 U R  | 0.5 U J                                   | NS  | NS  |
| Aroclor-1248                            | µg/L                                | NS                                     | NS                                     | NS                                    | 0.5 U R  | 0.5 U J                                   | NS  | NS  |
| Aroclor-1254                            | µg/L                                | NS                                     | NS                                     | NS                                    | 1 U R  | 1 U J                                     | NS  | NS  |
| Aroclor-1260                            | µg/L                                | NS                                     | NS                                     | NS                                    | 1 U R  | 1 U J                                     | NS  | NS  |
| <b>HERBICIDES</b>                       |                                     |  |  |                                       |  |   |   |   |
| 2,4-D                                   | µg/L                                | 1 U                                    | NS                                     | NS                                    | 1 U  | NS  | NS  | NS  |
| 2,4-DB                                  | µg/L                                | 1 U                                    | NS                                     | NS                                    | 1 U  | NS  | NS  | NS  |
| 2,4,5-T                                 | µg/L                                | 0.1 U                                  | NS                                     | NS                                    | 0.1 U  | NS  | NS  | NS  |
| 2,4,5-TP (Silvex)                       | µg/L                                | 0.1 U                                  | NS                                     | NS                                    | 0.1 U  | NS  | NS  | NS  |
| Dalapon                                 | µg/L                                | 2.3 U                                  | NS                                     | NS                                    | 2.3 U  | NS  | NS  | NS  |
| Dicamba                                 | µg/L                                | 0.1 U                                  | NS                                     | NS                                    | 0.1 U  | NS  | NS  | NS  |
| Dichloroprop                            | µg/L                                | 1 U                                    | NS                                     | NS                                    | 1 U  | NS  | NS  | NS  |
| Dinoseb                                 | µg/L                                | 0.5 U                                  | NS                                     | NS                                    | 0.5 U  | NS  | NS  | NS  |
| MCPA                                    | µg/L                                | 100 U                                  | NS                                     | NS                                    | 100 U  | NS  | NS  | NS  |
| MCPP                                    | µg/L                                | 100 U                                  | NS                                     | NS                                    | 100 U  | NS  | NS  | NS  |
| <b>METALS</b>                           |                                     |  |  |                                       |  |   |   |   |
| Aluminum                                | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 389   | 24.6 U  |
| Antimony                                | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 55.8 U J  | 53.4 U  |
| Arsenic                                 | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 3.8 U   | 3.6 U   |
| Barium                                  | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 93.5 J  | 79.7 J  |
| Beryllium                               | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 1.7 R   | 2.4 R   |
| Cadmium                                 | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 2.9 U   | 3 U   |
| Calcium                                 | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 54500 J   | 59700   |
| Chromium                                | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 6.2 U   | 6.2 U   |
| Cobalt                                  | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 19.9 U  | 20.5 U  |
| Copper                                  | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 14.5 U  | 10.2 U  |
| Iron                                    | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 673   | 7 U   |
| Lead                                    | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 1.2 U   | 1.2 U   |
| Magnesium                               | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 16000 J   | 17900   |
| Manganese                               | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 60.8  | 6 J   |
| Mercury                                 | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 0.13 R  | 0.1 R   |
| Nickel                                  | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 15.8 U  | 14.8 U  |
| Potassium                               | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 1620 J  | 2030 J  |
| Selenium                                | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 1 U   | 1 U   |
| Silver                                  | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 9.1 U   | 3.4 U   |
| Sodium                                  | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 29900   | 29600   |
| Thallium                                | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 3.2 U   | 3.2 U   |
| Vanadium                                | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 30.8 U  | 9.6 U   |
| Zinc                                    | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 17.4 B  | 8.5 U   |
| Cyanide                                 | µg/L                                | NS                                     | NS                                     | NS                                    | NS   | NS  | 10 U J  | NS  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE II WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER |    |
|----------------------------|----------------|----------------|---------------|---------------|----------------|---------------|---------------|----|
| DATE                       | PT16           | ASH            | PT-16         | PT-16         | PT16           | PT-17         | PT-17         |    |
| ES ID                      | PT16           | PT-16          | PT-16         | PT-16         | PT16           | PT-17         | PT-17         |    |
| LAB ID                     | 187343         | 187304         | 182158        | 182200        | 188280         | 182647        | 152871        |    |
| COMPOUND                   | UNITS          |                |               |               |                |               |               |    |
| Chloromethane              | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 14 U          | NS |
| Bromomethane               | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 14 U          | NS |
| Vinyl Chloride             | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 14 U          | NS |
| Chloroethane               | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 14 U          | NS |
| Methylene Chloride         | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 8 U           | NS |
| Acetone                    | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Carbon Disulfide           | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| 1,1-Dichloroethane         | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| 1,1-Dichloroethane         | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| 1,2-Dichloroethane (total) | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 63            | NS |
| Chloroform                 | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 3 J           | NS |
| 1,2-Dichloroethane         | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| 2-Butanone                 | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 14 U          | NS |
| 1,1,1-Trichloroethane      | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Carbon Tetrachloride       | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Vinyl Acetate              | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 14 U          | NS |
| Bromodichloromethane       | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| 1,2-Dichloropropane        | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| cis-1,3-Dichloropropene    | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Trichloroethene            | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 260           | NS |
| Dibromochloromethane       | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| 1,1,2-Trichloroethane      | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Benzene                    | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| trans-1,3-Dichloropropene  | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Bromoform                  | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 14 U          | NS |
| 4-Methyl-2-Pentanone       | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 14 U          | NS |
| 2-Hexanone                 | µg/L           | NS             | NS            | 10 U          | NS             | NS            | 14 U          | NS |
| Tetrachloroethene          | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| 1,1,2,2-Tetrachloroethane  | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Toluene                    | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Chlorobenzene              | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Ethylbenzene               | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Styrene                    | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |
| Xylene (total)             | µg/L           | NS             | NS            | 8 U           | NS             | NS            | 7 U           | NS |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX<br>LOCATION          | PHASE II |          | PHASE I  |          | PHASE I  |          | PHASE II |          | PHASE I  |          | PHASE I  |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                             | DATE     | WATER    | ASH      | WATER    | WATER    | PT-16    | PT-16    | PT-16    | PT-16    | PT-17    | PT-17    | PT-17    |
| UNITS                       | 06/24/83 | 06/30/83 | 07/08/82 | 07/08/82 | 07/08/82 | 07/08/82 | 07/08/82 | 07/08/82 | 07/08/82 | 07/08/82 | 07/08/82 | 07/08/82 |
| LAB ID                      | 187343   | 187304   | 182166   | 182200   | 182647   | 182647   | 182647   | 182647   | 182647   | 182647   | 182647   | 182647   |
|                             | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| VOC's (B&L)                 | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Dichlorofluoromethane       | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Chloroethane                | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Vinyl Chloride              | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Bromomethane                | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Chloroethane                | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1-Dichloroethane          | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Acetone                     | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Carbon Disulfide            | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Methylene Chloride          | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Tetra-1,2-Dichloroethane    | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1-Dichloroethane          | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 2,2-Dichloropropane         | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 2,2-Dichloroethane          | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dichloroethane          | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Chloroform                  | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1,1-Trichloroethane       | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Carbon Tetrachloride        | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1-Dichloroethane          | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Benzene                     | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dichloroethane          | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1,1-Trichloroethane       | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Bromochloromethane          | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1,1-Trichloroethane       | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Dibromochloromethane        | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1,2-Trichloroethane       | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 4-Methyl-2-Pentanone        | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Toluene                     | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1,2-Trichloroethane       | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1,2,2-Tetrachloroethane   | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 2,2,4,4-Tetrachloropentane  | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1,2,2-Tetrachloroethane   | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dibromochloroethane     | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Chlorobenzene               | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Ethylbenzene                | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Styrene                     | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Isopropylbenzene            | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Bromobenzene                | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,1,2,2-Tetrachloroethane   | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,2,3-Trichloropropane      | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| n-Propylbenzene             | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 2-Chlorotoluene             | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 4-Chlorotoluene             | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,3,5-Trimethylbenzene      | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,3,5-Tribromobenzene       | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| sec-Butylbenzene            | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,4-Dichlorobenzene         | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| n-Propyltoluene             | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dichlorobenzene         | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| n-Butylbenzene              | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dibromo-3-Chloropropane | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,2,4-Trichlorobenzene      | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Isopropyltoluene            | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,2,3-Trichlorobenzene      | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| 1,2,3-Trichlorobenzene      | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |
| Xylene (Total)              | NS       | NS       | NS       | NS       | 0.8 U    | NS       | 0.8 U    | NS       | NS       | NS       | NS       | NS       |

COMPOUND

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | PHASE II WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER |
|------------------------------|----------------|----------------|---------------|---------------|----------------|---------------|---------------|
| ES ID                        | PT-16          | ASH            | PT-16         | PT-16         | PT-16          | PT-16         | PT-16         |
| DATE                         | 06/24/93       | 06/30/93       | 01/06/92      | 01/06/92      | 07/03/93       | 01/16/92      | 01/16/92      |
| LAB ID                       | PT-16          | PT-16          | PT-16         | PT-16         | PT-16          | PT-16         | PT-16         |
| UNITS                        | 187243         | 187934         | 182156        | 182200        | 186260         | 182647        | 182671        |
| SEMIVOLATILES                |                |                |               |               |                |               |               |
| Phenol                       | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| bis(2-Chloroethyl) ether     | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2-Chlorophenol               | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 1,3-Dichlorobenzene          | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 1,4-Dichlorobenzene          | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Benzyl Alcohol               | µg/L           | NS             | NS            | 11 U          | NS             | NS            | 11 U          |
| 1,2-Dichlorobenzene          | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2-Methylphenol               | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| bis(2-Chloroisopropyl) ether | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 4-Methylphenol               | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| N-Nitro-o-di-n-propylamine   | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Hexachloroethane             | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Nitrobenzene                 | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Isophorone                   | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2-Nitrophenol                | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2,4-Dimethylphenol           | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Benzic acid                  | µg/L           | NS             | NS            | 56 U          | NS             | NS            | 64 U          |
| bis(2-Chloroethoxy) methane  | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2,4-Dichlorophenol           | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 1,2,4-Trichlorobenzene       | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Naphthalene                  | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 4-Chloroaniline              | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Hexachlorobutadiene          | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 4-Chloro-3-methylphenol      | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2-Methylnaphthalene          | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Hexachlorocyclopentadiene    | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2,4,6-Trichlorophenol        | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2,4,8-Trichlorophenol        | µg/L           | 28 U           | NS            | 56 U          | NS             | 26 U          | 64 U          |
| 2-Chloronaphthalene          | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2-Nitroaniline               | µg/L           | 28 U           | NS            | 56 U          | NS             | 26 U          | 64 U          |
| Dimethylphthalate            | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Acenaphthylene               | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2,6-Dinitrotoluene           | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 3-Nitroaniline               | µg/L           | 28 U           | NS            | 56 U          | NS             | 26 U          | 64 U          |
| Acenaphthene                 | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2,4-Dinitrophenol            | µg/L           | 28 U           | NS            | 56 U          | NS             | 26 U          | 64 U          |
| 4-Nitrophenol                | µg/L           | 28 U           | NS            | 56 U          | NS             | 26 U          | 64 U          |
| Dibenzofuran                 | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 2,4-Dinitrotoluene           | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Diethylphthalate             | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 4-Chlorophenyl-phenylether   | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Fluorene                     | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 4-Nitroaniline               | µg/L           | 28 U           | NS            | 56 U          | NS             | 26 U          | 64 U          |
| 4,6-Dinitro-2-methylphenol   | µg/L           | 28 U           | NS            | 56 U          | NS             | 26 U          | 64 U          |
| N-Nitrosodiphenylamine (1)   | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 4-Bromophenyl-phenylether    | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Hexachlorobenzene            | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Pentachlorophenol            | µg/L           | 28 U           | NS            | 56 U          | NS             | 26 U          | 64 U          |
| Phenanthrene                 | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Anthracene                   | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Carbazole                    | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Di-n-butylphthalate          | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Fluoranthene                 | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Pyrene                       | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Butylbenzylphthalate         | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| 3,3'-Dichlorobenzidine       | µg/L           | 10 U           | NS            | 22 U          | NS             | 10 U          | 21 U          |
| Benzo(a)anthracene           | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Chrysene                     | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| bis(2-Ethylhexyl)phthalate   | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Di-n-octylphthalate          | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Benzo(b)fluoranthene         | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 20 U          |
| Benzo(k)fluoranthene         | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Benzo(a)pyrene               | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Indeno(1,2,3-cd)pyrene       | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Dibenz(a,h)anthracene        | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |
| Benzo(g,h,i)perylene         | µg/L           | 10 U           | NS            | 11 U          | NS             | 10 U          | 11 U          |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | MATRIX LOCATION DATE ES ID LAB ID UNITS | PHASE II WATER PT16 06/24/93 PT16 187343 | PHASE II WATER ASH 06/30/93 PT-16 187934 | PHASE I WATER PT-16 01/08/92 PT-16 182168 | PHASE I WATER PT-16 01/08/92 PT-16 182200 | PHASE II WATER PT16 07/03/93 PT16 182690 | PHASE I WATER PT-17 01/18/92 PT-17 182647 | PHASE I WATER PT-17 01/18/92 PT-17 182671 |
|------------------------|---|--|--|---|---|--|---|---|
| <b>PESTICIDES/PCBs</b> |   |  |  |   |   |  |   |   |
| alpha-BHC              | µg/L                                    | NS                                       | 0.05 U                                   | 0.05 U                                    | NS  | 0.05 U                                   | 0.055 U                                   | NS  |
| beta-BHC               | µg/L                                    | NS                                       | 0.05 U                                   | 0.05 U                                    | NS  | 0.05 U                                   | 0.055 U                                   | NS  |
| delta-BHC              | µg/L                                    | NS                                       | 0.05 U                                   | 0.05 U                                    | NS  | 0.05 U                                   | 0.055 U                                   | NS  |
| gamma-BHC (Lindane)    | µg/L                                    | NS                                       | 0.05 U                                   | 0.05 U                                    | NS  | 0.05 U                                   | 0.055 U                                   | NS  |
| Heptachlor             | µg/L                                    | NS                                       | 0.05 U                                   | 0.05 U                                    | NS  | 0.05 U                                   | 0.055 U                                   | NS  |
| Aldrin                 | µg/L                                    | NS                                       | 0.05 U                                   | 0.05 U                                    | NS  | 0.05 U                                   | 0.055 U                                   | NS  |
| Heptachlor epoxide     | µg/L                                    | NS                                       | 0.05 U                                   | 0.05 U                                    | NS  | 0.05 U                                   | 0.055 U                                   | NS  |
| Endosulfan I           | µg/L                                    | NS                                       | 0.05 U                                   | 0.05 U                                    | NS  | 0.05 U                                   | 0.055 U                                   | NS  |
| Dieldrin               | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.1 U                                    | 0.11 U                                    | NS  |
| 4,4'-DDE               | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.1 U                                    | 0.11 U                                    | NS  |
| Endrin                 | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.1 U                                    | 0.11 U                                    | NS  |
| Endosulfan II          | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.1 U                                    | 0.11 U                                    | NS  |
| 4,4'-DDD               | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.1 U                                    | 0.11 U                                    | NS  |
| Endosulfan sulfate     | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.1 U                                    | 0.11 U                                    | NS  |
| 4,4'-DDT               | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.1 U                                    | 0.11 U                                    | NS  |
| Methoxychlor           | µg/L                                    | NS                                       | 0.5 U                                    | 0.5 U                                     | NS  | 0.5 U                                    | 0.55 U                                    | NS  |
| Endrin ketone          | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.1 U                                    | 0.11 U                                    | NS  |
| Endrin aldehyde        | µg/L                                    | NS                                       | 0.1 U                                    | NS  | NS  | 0.1 U                                    | NS  | NS  |
| alpha-Chlordane        | µg/L                                    | NS                                       | 0.05 U                                   | 0.5 U                                     | NS  | 0.05 U                                   | 0.55 U                                    | NS  |
| gamma-Chlordane        | µg/L                                    | NS                                       | 0.05 U                                   | 0.5 U                                     | NS  | 0.05 U                                   | 0.55 U                                    | NS  |
| Toxaphene              | µg/L                                    | NS                                       | 5 U                                      | 1 U                                       | NS  | 5 U                                      | 1.1 U                                     | NS  |
| Aroclor-1016           | µg/L                                    | NS                                       | 1 U                                      | 0.8 U                                     | NS  | 1 U                                      | 0.55 U                                    | NS  |
| Aroclor-1221           | µg/L                                    | NS                                       | 2 U                                      | 0.8 U                                     | NS  | 2 U                                      | 0.55 U                                    | NS  |
| Aroclor-1232           | µg/L                                    | NS                                       | 1 U                                      | 0.5 U                                     | NS  | 1 U                                      | 0.55 U                                    | NS  |
| Aroclor-1242           | µg/L                                    | NS                                       | 1 U                                      | 0.5 U                                     | NS  | 1 U                                      | 0.55 U                                    | NS  |
| Aroclor-1248           | µg/L                                    | NS                                       | 1 U                                      | 0.5 U                                     | NS  | 1 U                                      | 0.55 U                                    | NS  |
| Aroclor-1254           | µg/L                                    | NS                                       | 1 U                                      | 1 U                                       | NS  | 1 U                                      | 1.1 U                                     | NS  |
| Aroclor-1260           | µg/L                                    | NS                                       | 1 U                                      | 1 U                                       | NS  | 1 U                                      | 1.1 U                                     | NS  |
| <b>HERBICIDES</b>      |   |  |  |   |   |  |   |   |
| 2,4-D                  | µg/L                                    | NS                                       | 1 U                                      | 1.2 U                                     | NS  | 1.1 U                                    | 1 U                                       | NS  |
| 2,4-DB                 | µg/L                                    | NS                                       | 1 U                                      | 1.2 U                                     | NS  | 1.1 U                                    | 1 U                                       | NS  |
| 2,4,6-T                | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.11 U                                   | 0.1 U                                     | NS  |
| 2,4,6-TP (Silvex)      | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.11 U                                   | 0.1 U                                     | NS  |
| Dalapon                | µg/L                                    | NS                                       | 2.3 U                                    | 2.7 U                                     | NS  | 2.4 U                                    | 2.3 U                                     | NS  |
| Dicamba                | µg/L                                    | NS                                       | 0.1 U                                    | 0.1 U                                     | NS  | 0.11 U                                   | 0.1 U                                     | NS  |
| Dichloroprop           | µg/L                                    | NS                                       | 1 U                                      | 1.2 U                                     | NS  | 1.1 U                                    | 1 U                                       | NS  |
| Dinoseb                | µg/L                                    | NS                                       | 0.5 U                                    | 0.5 U                                     | NS  | 0.53 U                                   | 0.5 U                                     | NS  |
| MCPA                   | µg/L                                    | NS                                       | 100 U                                    | 120 U                                     | NS  | 110 U                                    | 100 U                                     | NS  |
| MCPP                   | µg/L                                    | NS                                       | 100 U                                    | 120 U                                     | NS  | 110 U                                    | 100 U                                     | NS  |
| <b>METALS</b>          |   |  |  |   |   |  |   |   |
| Aluminum               | µg/L                                    | 893                                      | NS                                       | 1520                                      | 24.4 U                                    | 179 J                                    | 14200                                     | 24.6 U                                    |
| Antimony               | µg/L                                    | 48.9 UJ                                  | NS                                       | 53.4 U                                    | 53 U                                      | 49.6 UJ                                  | 53.3 R                                    | 53.4 U                                    |
| Arsenic                | µg/L                                    | 1.4 UJ                                   | NS                                       | 3.5 U J                                   | 3.5 U                                     | 1.4 UJ                                   | 3.5 J                                     | 3.5 U                                     |
| Barium                 | µg/L                                    | 100 J                                    | NS                                       | 75 J                                      | 36.8 R                                    | 48.5 J                                   | 131 J                                     | 69.5 R                                    |
| Beryllium              | µg/L                                    | 0.9 U                                    | NS                                       | 2.1 R                                     | 2.3 R                                     | 0.89 U                                   | 2.5 R                                     | 1.1 U                                     |
| Cadmium                | µg/L                                    | 2.8 U                                    | NS                                       | 2.9 U                                     | 3 U                                       | 2.8 U                                    | 3 U                                       | 3 U                                       |
| Calcium                | µg/L                                    | 69400                                    | NS                                       | 129000 J                                  | 100000                                    | 162000                                   | 116000                                    | 108000                                    |
| Chromium               | µg/L                                    | 2.7 UJ                                   | NS                                       | 7.2 J                                     | 9.2 U                                     | 2.7 UJ                                   | 90  | 8.2 U                                     |
| Cobalt                 | µg/L                                    | 6.5 U                                    | NS                                       | 19.9 U                                    | 20.4 U                                    | 6.5 U                                    | 20.3 U                                    | 20.5 U                                    |
| Copper                 | µg/L                                    | 4.7 U                                    | NS                                       | 14.8 U                                    | 10.1 U                                    | 4.7 U                                    | 11.8 J                                    | 10.2 U                                    |
| Iron                   | µg/L                                    | 1400                                     | NS                                       | 2790                                      | 6.9 U                                     | 118                                      | 21500                                     | 7 U                                       |
| Lead                   | µg/L                                    | 1.7 J                                    | NS                                       | 4.2                                       | 1.2 U                                     | 0.79 U                                   | 6.3                                       | 1.2 U                                     |
| Magnesium              | µg/L                                    | 17900                                    | NS                                       | 14300 J                                   | 14300                                     | 14900                                    | 15700                                     | 10700                                     |
| Manganese              | µg/L                                    | 158                                      | NS                                       | 483                                       | 4.8 U                                     | 24.6                                     | 820                                       | 4.8 U                                     |
| Mercury                | µg/L                                    | 0.05 UJ                                  | NS                                       | 0.12 R                                    | 0.1 R                                     | 0.09 UJ                                  | 0.1 R                                     | 0.03 U                                    |
| Nickel                 | µg/L                                    | 7.8 UJ                                   | NS                                       | 16 U                                      | 14.7 U                                    | 7.4 UJ                                   | 21.3 J                                    | 14.8 U                                    |
| Potassium              | µg/L                                    | 2430 J                                   | NS                                       | 833 J                                     | 287 U                                     | 1080 J                                   | 3200 J                                    | 288 U                                     |
| Selenium               | µg/L                                    | 0.99 UJ                                  | NS                                       | 1 U                                       | 1 U                                       | 1.5 UJ                                   | 1.3 U                                     | 1 U                                       |
| Silver                 | µg/L                                    | 6.5 U                                    | NS                                       | 9.1 U                                     | 3.4 U                                     | 5.5 U                                    | 3.4 U                                     | 3.4 U                                     |
| Sodium                 | µg/L                                    | 27900                                    | NS                                       | 5330 J                                    | 8890                                      | 6340                                     | 29400                                     | 27900                                     |
| Thallium               | µg/L                                    | 2.9 U                                    | NS                                       | 3.2 U                                     | 3.2 U                                     | 2.6 U                                    | 3.2 U                                     | 3.2 U                                     |
| Vanadium               | µg/L                                    | 6.9 UJ                                   | NS                                       | 30.5 U                                    | 9.4 U                                     | 6.7 UJ                                   | 21.8 J                                    | 9.5 U                                     |
| Zinc                   | µg/L                                    | 17.5 R                                   | NS                                       | 24.1                                      | 8.4 U                                     | 9.2 J                                    | 69.4 R                                    | 20.5 R                                    |
| Cyanide                | µg/L                                    | 10 UJ                                    | NS                                       | 10 U J                                    | NS  | 10 UJ                                    | 10 U                                      | NS  |

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VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | PHASE II | PHASE I  | PHASE I       | PHASE II | PHASE I  | PHASE I       | PHASE II |
|----------------------------|----------|----------|----------|---------------|----------|----------|---------------|----------|
|                            | LOCATION | WATER    | WATER    | WATER         | WATER    | WATER    | WATER         | WATER    |
|                            | DATE     | PT-18    | PT-18    | PT-18         | PT-18    | PT-18    | PT-18         | PT-18    |
|                            | ES ID    | 07/13/93 | 01/09/92 | 01/09/92      | 07/18/93 | 01/17/92 | 01/17/92      | 08/30/93 |
|                            | LAB ID   | PT17     | PT-18    | PT-18Filtered | PT 18    | PT-18    | PT-18Filtered | PT-18    |
|                            | UNITS    | 188608   | 182158   | 182201        | 188114   | 182705   | 182712        | 187935   |
| Chloromethane              | µg/L     | 10 U     | 670 U    | NS            | 10 U     | 10 U     | NS            | NS       |
| Bromomethane               | µg/L     | 10 U     | 670 U    | NS            | 10 U     | 10 U     | NS            | NS       |
| Vinyl Chloride             | µg/L     | 10 U     | 670 U    | NS            | 10       | 10 U     | NS            | NS       |
| Chloroethane               | µg/L     | 10 U     | 670 U    | NS            | 10 U     | 10 U     | NS            | NS       |
| Methylene Chloride         | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Acetone                    | µg/L     | 10 U     | 670 U    | NS            | 10 U     | 10 U     | NS            | NS       |
| Carbon Disulfide           | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| 1,1-Dichloroethene         | µg/L     | 10 U     | 330 U    | NS            | 3 J      | 5 U      | NS            | NS       |
| 1,1-Dichloroethane         | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| 1,2-Dichloroethene (total) | µg/L     | 43       | 400      | NS            | 730 J    | 5 U      | NS            | NS       |
| Chloroform                 | µg/L     | 10 U     | 180 J    | NS            | 210 J    | 5 U      | NS            | NS       |
| 1,2-Dichloroethane         | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| 2-Butanone                 | µg/L     | 10 U     | 670 U    | NS            | 10 U     | 10 U     | NS            | NS       |
| 1,1,1-Trichloroethane      | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Carbon Tetrachloride       | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Vinyl Acetate              | µg/L     | NS       | 670 U    | NS            | NS       | 10 U     | NS            | NS       |
| Bromodichloromethane       | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| 1,2-Dichloropropane        | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| cis-1,3-Dichloropropene    | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Trichloroethene            | µg/L     | 190      | 11000    | NS            | 13000    | 5 U      | NS            | NS       |
| Dibromochloromethane       | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| 1,1,2-Trichloroethane      | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Benzene                    | µg/L     | 10 U     | 330 U    | NS            | 1 J      | 5 U      | NS            | NS       |
| trans-1,3-Dichloropropene  | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Bromoform                  | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| 4-Methyl-2-Pentanone       | µg/L     | 10 U     | 670 U    | NS            | 10 U     | 10 U     | NS            | NS       |
| 2-Hexanone                 | µg/L     | 10 U     | 670 U    | NS            | 10 U     | 10 U     | NS            | NS       |
| Tetrachloroethene          | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| 1,1,2,2-Tetrachloroethane  | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Toluene                    | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Chlorobenzene              | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Ethylbenzene               | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Styrene                    | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |
| Xylene (total)             | µg/L     | 10 U     | 330 U    | NS            | 10 U     | 5 U      | NS            | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                    | MATRIX LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE II                            | PHASE I                              | PHASE I  | PHASE II                            | PHASE I                                       | PHASE I  | PHASE II                                      |
|-----------------------------|---|-------------------------------------|--------------------------------------|--|-------------------------------------|---|--|---|
|                             |   | WATER<br>PT17<br>07/13/93<br>188606 | WATER<br>PT-18<br>01/09/92<br>182159 | WATER<br>PT-18<br>01/09/92<br>PT-18 Filtered<br>182201 | WATER<br>PT18<br>07/16/93<br>189114 | WATER<br>PT-19<br>01/17/92<br>PT-19<br>182706 | WATER<br>PT-19<br>01/17/92<br>PT-19 Filtered<br>182712 | WATER<br>PT-19<br>06/30/93<br>PT-19<br>187936 |
| VOC's (824.2)               |   |                                     |                                      |  |                                     |   |  |   |
| Dichlorodifluoromethane     | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.6 U   |
| Chloromethane               | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.8 U   |
| Vinyl Chloride              | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Bromomethane                | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Chloroethane                | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Trichlorofluoromethane      | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,1-Dichloroethene          | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Acetone                     | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 5 U   |
| Carbon Disulfide            | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Methylene Chloride          | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| trans-1,2-Dichloroethene    | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,1-Dichloroethane          | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 2,2-Dichloropropane         | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| cis-1,2-Dichloroethane      | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 2-Butanone                  | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 5 U   |
| Bromochloromethane          | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Chloroform                  | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,1,1-Trichloroethane       | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Carbon Tetrachloride        | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,1-Dichloroethene          | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Benzene                     | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,2-Dichloroethane          | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Trichloroethene             | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,2-Dichloropropane         | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Dibromomethane              | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Bromodichloromethane        | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| cis-1,3-Dichloropropane     | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 4-Methyl-2-Pentanone        | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 5 U   |
| Toluene                     | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| trans-1,3-Dichloropropane   | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,1,2-Trichloroethane       | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Tetrachloroethene           | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,3-Dichloropropane         | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 2-Hexanone                  | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 5 U   |
| Dibromochloromethane        | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,2-Dibromomethane          | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Chlorobenzene               | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,1,2-Tetrachloroethane     | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Ethylbenzene                | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Styrene                     | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Bromoform                   | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Isopropylbenzene            | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Bromobenzene                | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,1,2,2-Tetrachloroethane   | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,2,3-Trichloropropane      | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| n-Propylbenzene             | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 2-Chlorotoluene             | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 4-Chlorotoluene             | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,3,5-Trimethylbenzene      | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| tert-Butylbenzene           | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,2,4-Trimethylbenzene      | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| sec-Butylbenzene            | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,3-Dichlorobenzene         | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,4-Dichlorobenzene         | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| p-Isopropyltoluene          | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,2-Dichlorobenzene         | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| n-Butylbenzene              | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,2-Dibromo-3-Chloropropane | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,2,4-Trichlorobenzene      | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Hexachlorobutadiene         | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Naphthalene                 | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| 1,2,3-Trichlorobenzene      | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |
| Xylene (total)              | µg/L  | NS                                  | NS                                   | NS   | NS                                  | NS  | NS   | 0.5 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                    | MATRIX LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE II                                    | PHASE I                                       | PHASE I  | PHASE II                                    | PHASE I                                       | PHASE I  | PHASE II                                      |
|-----------------------------|---|---|---|--|---|---|--|---|
|                             |   | WATER<br>PT17<br>07/13/93<br>PT17<br>188806 | WATER<br>PT-18<br>01/09/92<br>PT-18<br>152159 | WATER<br>PT-18<br>01/09/92<br>PT-18 Filtered<br>162201 | WATER<br>PT18<br>07/15/93<br>PT18<br>189114 | WATER<br>PT-19<br>01/17/92<br>PT-19<br>152705 | WATER<br>PT-19<br>01/17/92<br>PT-19 Filtered<br>152712 | WATER<br>PT-18<br>06/30/93<br>PT-18<br>187935 |
| SEMI-VOLATILES              |   |   |   |  |   |   |  |   |
| Phenol                      | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| bis(2-Chloroethyl) ether    | µg/L  | 11 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2-Chlorophenol              | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 1,3-Dichlorobenzene         | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 1,4-Dichlorobenzene         | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Benzyl Alcohol              | NS  | NS  | 11 U  | NS   | NS  | 11 U  | NS   | NS  |
| 1,2-Dichlorobenzene         | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2-Methylphenol              | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| bis(2-Chloropropyl) ether   | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 4-Methylphenol              | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 2 J   |
| N-Nitroso-di-n-propylamine  | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Hexachloroethane            | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Nitrobenzene                | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Isophorone                  | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2-Nitrophenol               | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2,4-Dimethylphenol          | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Benzoic acid                | µg/L  | NS  | 87 U  | NS   | NS  | 56 U  | NS   | NS  |
| bis(2-Chloroethoxy) methane | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2,4-Dichlorophenol          | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 1,2,4-Trichlorobenzene      | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Naphthalene                 | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 4-Chloroaniline             | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Hexachlorobutadiene         | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 4-Chloro-3-methylphenol     | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2-Methylnaphthalene         | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Hexachlorocyclopentadiene   | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2,4,6-Trichlorophenol       | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2,4,5-Trichlorophenol       | µg/L  | 25 U  | 87 U  | NS   | 25 U  | 56 U  | NS   | 25 U  |
| 2-Chloronaphthalene         | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2-Nitroaniline              | µg/L  | 25 U  | 87 U  | NS   | 25 U  | 56 U  | NS   | 25 U  |
| Dimethylphthalate           | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Acenaphthylene              | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2,6-Dinitrotoluene          | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 3-Nitroaniline              | µg/L  | 25 U  | 87 U  | NS   | 25 U  | 56 U  | NS   | 25 U  |
| Acenaphthene                | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2,4-Dinitrophenol           | µg/L  | 25 U  | 87 U  | NS   | 25 U  | 56 U  | NS   | 25 U  |
| 4-Nitrophenol               | µg/L  | 25 U  | 87 U  | NS   | 25 U  | 56 U  | NS   | 25 U  |
| Dibenzofuran                | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 2,4-Dinitrotoluene          | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Diethylphthalate            | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 4-Chlorophenyl-phenylether  | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Fluorene                    | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 4-Nitroaniline              | µg/L  | 25 U  | 87 U  | NS   | 25 U  | 56 U  | NS   | 25 U  |
| 4,6-Dinitro-2-methylphenol  | µg/L  | 25 U  | 87 U  | NS   | 25 U  | 56 U  | NS   | 25 U  |
| N-Nitrosodiphenylamine (I)  | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 4-Bromophenyl-phenylether   | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Hexachlorobenzene           | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Pentachlorophenol           | µg/L  | 25 U  | 87 U  | NS   | 25 U  | 56 U  | NS   | 25 U  |
| Phenanthrene                | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Anthracene                  | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Carbazole                   | µg/L  | 10 U  | NS  | NS   | 10 U  | NS  | NS   | 10 U  |
| Di-n-butylphthalate         | µg/L  | 3 J   | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Fluoranthene                | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Pyrene                      | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Butylbenzylphthalate        | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| 3,3'-Dichlorobenzidine      | µg/L  | 10 U  | 23 U  | NS   | 10 U  | 22 U  | NS   | 10 U  |
| Benzo(a)anthracene          | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Chrysene                    | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| bis(2-Ethylhexyl)phthalate  | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Di-n-octylphthalate         | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Benzo(b)fluoranthene        | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Benzo(k)fluoranthene        | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Benzo(a)pyrene              | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Indeno(1,2,3-cd)pyrene      | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Dibenz(a,h)anthracene       | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |
| Benzo(g,h,i)perylene        | µg/L  | 10 U  | 11 U  | NS   | 10 U  | 11 U  | NS   | 10 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND            | MATRIX LOCATION | PHASE II |        | PHASE I  |          | PHASE II |         | PHASE I  |          | PHASE II |        | PHASE I  |         | PHASE II |        |          |
|---------------------|-----------------|----------|--------|----------|----------|----------|---------|----------|----------|----------|--------|----------|---------|----------|--------|----------|
|                     |                 | DATE     | WATER  | PT-18    | DATE     | WATER    | PT-18   | DATE     | WATER    | PT-18    | DATE   | WATER    | PT-18   | DATE     | WATER  | PT-18    |
| PESTICIDES/PCBS     |                 |          |        |          |          |          |         |          |          |          |        |          |         |          |        |          |
| alpha-BHC           | J9L             | 07/13/80 | 0.06 U | 07/16/83 | NS       | 07/17/82 | 0.051 U | 07/16/83 | 0.051 U  | 07/17/82 | NS     | 07/16/83 | 0.051 U | 07/17/82 | NS     | 07/16/83 |
| beta-BHC            | J9L             | 10/8808  | 0.06 U | 10/8114  | NS       | 10/2201  | 0.051 U | 10/8114  | 0.051 U  | 10/2201  | NS     | 10/8114  | 0.051 U | 10/2201  | NS     | 10/8114  |
| delta-BHC           | J9L             |          | 0.06 U |          | NS       |          | 0.051 U |          | 0.051 U  |          | NS     |          | 0.051 U |          | NS     |          |
| gamma-BHC (Lindane) | J9L             |          | 0.06 U |          | NS       |          | 0.051 U |          | 0.051 U  |          | NS     |          | 0.051 U |          | NS     |          |
| Alachlor            | J9L             |          | 0.06 U |          | NS       |          | 0.051 U |          | 0.051 U  |          | NS     |          | 0.051 U |          | NS     |          |
| Alfometh            | J9L             |          | 0.06 U |          | NS       |          | 0.051 U |          | 0.051 U  |          | NS     |          | 0.051 U |          | NS     |          |
| Heptachlor epoxide  | J9L             |          | 0.06 U |          | NS       |          | 0.051 U |          | 0.051 U  |          | NS     |          | 0.051 U |          | NS     |          |
| Endosulfan I        | J9L             |          | 0.06 U |          | NS       |          | 0.051 U |          | 0.051 U  |          | NS     |          | 0.051 U |          | NS     |          |
| Dieldrin            | J9L             |          | 0.1 U  |          | NS       |          | 0.12 U  |          | 0.12 U   |          | NS     |          | 0.12 U  |          | NS     |          |
| 4,4'-DDE            | J9L             |          | 0.1 U  |          | NS       |          | 0.12 U  |          | 0.12 U   |          | NS     |          | 0.12 U  |          | NS     |          |
| Endosulfan II       | J9L             |          | 0.1 U  |          | NS       |          | 0.12 U  |          | 0.12 U   |          | NS     |          | 0.12 U  |          | NS     |          |
| 4,4'-DDD            | J9L             |          | 0.1 U  |          | NS       |          | 0.12 U  |          | 0.12 U   |          | NS     |          | 0.12 U  |          | NS     |          |
| 4,4'-DDE sulfato    | J9L             |          | 0.1 U  |          | NS       |          | 0.12 U  |          | 0.12 U   |          | NS     |          | 0.12 U  |          | NS     |          |
| 4,4'-DDT            | J9L             |          | 0.1 U  |          | NS       |          | 0.12 U  |          | 0.12 U   |          | NS     |          | 0.12 U  |          | NS     |          |
| Methoxychlor        | J9L             |          | 0.52 U |          | NS       |          | 0.61 U  |          | 0.61 U   |          | NS     |          | 0.61 U  |          | NS     |          |
| Endrin ketone       | J9L             |          | 0.1 U  |          | NS       |          | 0.12 U  |          | 0.12 U   |          | NS     |          | 0.12 U  |          | NS     |          |
| Endrin aldehyde     | J9L             |          | 0.1 U  |          | NS       |          | 0.12 U  |          | 0.12 U   |          | NS     |          | 0.12 U  |          | NS     |          |
| alpha-Chlordane     | J9L             |          | 0.82 U |          | NS       |          | 0.61 U  |          | 0.61 U   |          | NS     |          | 0.61 U  |          | NS     |          |
| gamma-Chlordane     | J9L             |          | 0.82 U |          | NS       |          | 0.61 U  |          | 0.61 U   |          | NS     |          | 0.61 U  |          | NS     |          |
| Toxaphene           | J9L             |          | 8 U    |          | NS       |          | 1.2 U   |          | 1.2 U    |          | NS     |          | 1.2 U   |          | NS     |          |
| Aroclor-1016        | J9L             |          | 0.52 U |          | NS       |          | 0.61 U  |          | 0.61 U   |          | NS     |          | 0.61 U  |          | NS     |          |
| Aroclor-1221        | J9L             |          | 2 U    |          | NS       |          | 0.61 U  |          | 0.61 U   |          | NS     |          | 0.61 U  |          | NS     |          |
| Aroclor-1230        | J9L             |          | 1 U    |          | NS       |          | 0.61 U  |          | 0.61 U   |          | NS     |          | 0.61 U  |          | NS     |          |
| Aroclor-1242        | J9L             |          | 0.52 U |          | NS       |          | 0.61 U  |          | 0.61 U   |          | NS     |          | 0.61 U  |          | NS     |          |
| Aroclor-1248        | J9L             |          | 1 U    |          | NS       |          | 1.2 U   |          | 1.2 U    |          | NS     |          | 1.2 U   |          | NS     |          |
| Aroclor-1254        | J9L             |          | 1 U    |          | NS       |          | 1.2 U   |          | 1.2 U    |          | NS     |          | 1.2 U   |          | NS     |          |
| Aroclor-1260        | J9L             |          | 1 U    |          | NS       |          | 1.2 U   |          | 1.2 U    |          | NS     |          | 1.2 U   |          | NS     |          |
| HERBICIDES          |                 |          |        |          |          |          |         |          |          |          |        |          |         |          |        |          |
| 2,4-D               | J9L             |          | 1 U    |          | NS       |          | 1 U     |          | 1 U      |          | NS     |          | 1 U     |          | NS     |          |
| 2,4,5-T             | J9L             |          | 1 U    |          | NS       |          | 1 U     |          | 1 U      |          | NS     |          | 1 U     |          | NS     |          |
| 2,4,5-Tr            | J9L             |          | 0.1 U  |          | NS       |          | 0.1 U   |          | 0.1 U    |          | NS     |          | 0.1 U   |          | NS     |          |
| 2,4,5-Trp (Sheet)   | J9L             |          | 0.1 U  |          | NS       |          | 0.1 U   |          | 0.1 U    |          | NS     |          | 0.1 U   |          | NS     |          |
| Dalapon             | J9L             |          | 2.3 U  |          | NS       |          | 2.3 U   |          | 2.3 U    |          | NS     |          | 2.3 U   |          | NS     |          |
| Dicamba             | J9L             |          | 0.1 U  |          | NS       |          | 0.1 U   |          | 0.1 U    |          | NS     |          | 0.1 U   |          | NS     |          |
| Dichloroprop        | J9L             |          | 1 U    |          | NS       |          | 1 U     |          | 1 U      |          | NS     |          | 1 U     |          | NS     |          |
| Dinoseb             | J9L             |          | 0.8 U  |          | NS       |          | 0.8 U   |          | 0.8 U    |          | NS     |          | 0.8 U   |          | NS     |          |
| MCPA                | J9L             |          | 100 U  |          | NS       |          | 100 U   |          | 100 U    |          | NS     |          | 100 U   |          | NS     |          |
| MCPP                | J9L             |          | 100 U  |          | NS       |          | 100 U   |          | 100 U    |          | NS     |          | 100 U   |          | NS     |          |
| METALS              |                 |          |        |          |          |          |         |          |          |          |        |          |         |          |        |          |
| Aluminum            | J9L             |          | 72.8 U |          | 24.4 U   |          | 318 J   |          | 318 J    |          | 24.5 U |          | 318 J   |          | 24.5 U |          |
| Antimony            | J9L             |          | 68.8 J |          | 52.9 U   |          | 48.7 U  |          | 48.7 U   |          | 53.1 U |          | 48.7 U  |          | 53.1 U |          |
| Arsenic             | J9L             |          | 1.4 U  |          | 3.8 U    |          | 1.8 U   |          | 1.8 U    |          | 3.5 U  |          | 1.4 U   |          | 3.5 U  |          |
| Barium              | J9L             |          | 54.8 J |          | 37.4 R   |          | 40 J    |          | 40 J     |          | 59.4 R |          | 56 J    |          | 56 J   |          |
| Beryllium           | J9L             |          | 0.8 U  |          | 2.8 R    |          | 0.9 U   |          | 0.9 U    |          | 1.1 U  |          | 0.9 U   |          | 0.9 U  |          |
| Cadmium             | J9L             |          | 2.8 U  |          | 2.8 U    |          | 2.8 U   |          | 2.8 U    |          | 2.8 U  |          | 2.8 U   |          | 2.8 U  |          |
| Cesium              | J9L             |          | 114400 |          | 271000 J |          | 200000  |          | 110000 J |          | 68300  |          | 114400  |          | 68300  |          |
| Cobalt              | J9L             |          | 2.7 U  |          | 6.1 U    |          | 2.8 J   |          | 47.2     |          | 6.2 U  |          | 2.7 U   |          | 6.2 U  |          |
| Copper              | J9L             |          | 8.8 U  |          | 19.5 U   |          | 6.9 J   |          | 20.5 U   |          | 20.4 U |          | 8.8 J   |          | 20.5 U |          |
| Iron                | J9L             |          | 106 J  |          | 2270     |          | 498 J   |          | 43300    |          | 10.1 U |          | 408     |          | 43300  |          |
| Lead                | J9L             |          | 0.6 U  |          | 17.8     |          | 1.2 U   |          | 12.6 R   |          | 1.2 U  |          | 0.6 U   |          | 12.6 U |          |
| Magnesium           | J9L             |          | 11100  |          | 37000 J  |          | 24900   |          | 24700 J  |          | 12900  |          | 114400  |          | 12900  |          |
| Manganese           | J9L             |          | 8.1 J  |          | 864      |          | 782     |          | 643 J    |          | 8.8 J  |          | 8.1 J   |          | 8.8 J  |          |
| Mercury             | J9L             |          | 0.08 U |          | 0.12 R   |          | 0.08 U  |          | 0.04 R   |          | 0.03 U |          | 0.08 U  |          | 0.03 U |          |
| Nickel              | J9L             |          | 10.8 U |          | 14.7 U   |          | 7.9 U   |          | 14.7 U   |          | 11.1 U |          | 10.8 U  |          | 11.1 U |          |
| Potassium           | J9L             |          | 10000  |          | 22800 J  |          | 2011 U  |          | 7560     |          | 200 U  |          | 10000   |          | 200 U  |          |
| Selenium            | J9L             |          | 8.8 U  |          | 8.8 U    |          | 0.98 U  |          | 1 U      |          | 1 U    |          | 8.8 U   |          | 1 U    |          |
| Sodium              | J9L             |          | 8.8 U  |          | 8.8 U    |          | 3.4 R   |          | 3.4 U    |          | 3.4 U  |          | 8.8 U   |          | 3.4 U  |          |
| Silver              | J9L             |          | 28300  |          | 109000 J |          | 80300   |          | 19700    |          | 18300  |          | 28300   |          | 19700  |          |
| Vanadium            | J9L             |          | 2.8 U  |          | 3.2 U    |          | 2.8 U   |          | 3.2 U    |          | 3.2 U  |          | 2.8 U   |          | 3.2 U  |          |
| Zinc                | J9L             |          | 8.8 U  |          | 9.4 U    |          | 6.8 U   |          | 45.4 J   |          | 8.8 U  |          | 8.8 U   |          | 8.8 U  |          |
| Cyanide             | J9L             |          | 498    |          | 120      |          | 58.1 R  |          | 164 J    |          | 17.1 R |          | 498     |          | 17.1 R |          |
|                     | J9L             |          | 3 J    |          | 10 U J   |          | 1.4 J   |          | 10 U J   |          | NS     |          | 3 J     |          | 10 U J |          |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE I           | PHASE I           | PHASE I            | PHASE II          | PHASE II             | PHASE I           | PHASE I             |    |
|----------------------------|-------------------|-------------------|--------------------|-------------------|----------------------|-------------------|---------------------|----|
|                            | WATER             | WATER             | WATER              | WATER             | WATER                | WATER             | WATER               |    |
| DATE                       | PT-20<br>01/17/92 | PT-20<br>01/17/92 | PT-20<br>01/17/92  | PT-20<br>07/12/93 | PT-20 RE<br>07/12/93 | PT-21<br>01/17/92 | PT-21<br>01/25/92CK |    |
| ES ID                      | PT-20(2,3)        | PT-20RE(2,3,4)    | PT-20(2,3)Filtered | PT-20             | PT-20 RE             | PT-21             | PT-21               |    |
| LAB ID                     | 162706            | 162706            | 162713             | 166796            | 166796R1             | 162707            | 163069              |    |
| COMPOUND                   | UNITS             |                   |                    |                   |                      |                   |                     |    |
| Chloromethane              | µg/L              | 10 U              | NS                 | NS                | 10 U                 | NS                | 10 U                | NS |
| Bromomethane               | µg/L              | 10 U              | NS                 | NS                | 10 U                 | NS                | 10 U                | NS |
| Vinyl Chloride             | µg/L              | 10 U              | NS                 | NS                | 10 U                 | NS                | 10 U                | NS |
| Chloroethane               | µg/L              | 10 U              | NS                 | NS                | 10 U                 | NS                | 10 U                | NS |
| Methylene Chloride         | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Acetone                    | µg/L              | 10 U              | NS                 | NS                | 10 U                 | NS                | 10 U                | NS |
| Carbon Disulfide           | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| 1,1-Dichloroethane         | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| 1,1-Dichloroethane         | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| 1,2-Dichloroethane (total) | µg/L              | 24                | NS                 | NS                | 53                   | NS                | 16                  | NS |
| Chloroform                 | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| 1,2-Dichloroethane         | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| 2-Butanone                 | µg/L              | 10 U              | NS                 | NS                | 10 U                 | NS                | 10 U                | NS |
| 1,1,1-Trichloroethane      | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Carbon Tetrachloride       | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Vinyl Acetate              | µg/L              | 10 U              | NS                 | NS                | NS                   | NS                | 10 U                | NS |
| Bromodichloromethane       | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| 1,2-Dichloropropane        | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| cis-1,3-Dichloropropene    | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Trichloroethane            | µg/L              | 25                | NS                 | NS                | 37                   | NS                | 2 J                 | NS |
| Dibromochloromethane       | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| 1,1,2-Trichloroethane      | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Benzene                    | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| trans-1,3-Dichloropropene  | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Bromoform                  | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| 4-Methyl-2-Pentanone       | µg/L              | 10 U              | NS                 | NS                | 10 U                 | NS                | 10 U                | NS |
| 2-Hexanone                 | µg/L              | 10 U              | NS                 | NS                | 10 U                 | NS                | 10 U                | NS |
| Tetrachloroethene          | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| 1,1,2,2-Tetrachloroethane  | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Toluene                    | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Chlorobenzene              | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Ethylbenzene               | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Styrene                    | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |
| Xylene (total)             | µg/L              | 5 U               | NS                 | NS                | 10 U                 | NS                | 5 U                 | NS |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION             | PHASE I WATER | PHASE I WATER  | PHASE I WATER         | PHASE II WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER |
|-----------------------------|---------------|----------------|-----------------------|----------------|----------------|---------------|---------------|
| DATE                        | PT - 20       | PT - 20        | PT - 20               | PT20           | PT20 RE        | PT - 21       | PT - 21       |
| ES ID                       | 01/17/82      | 01/17/82       | 01/17/82              | 07/12/93       | 07/10/93       | 01/17/82      | 01/25/82 OK   |
| LAB ID                      | PT - 50(2,3)  | PT - 20(2,3,4) | PT - 20(2,3) Filtered | PT20           | PT20 RE        | PT - 21       | PT - 21       |
| UNITS                       | 162706        | 162706         | 162713                | 166796         | 166796R1       | 162707        | 163069        |
| COMPOUND                    |               |                |                       |                |                |               |               |
| VOC's (824.2)               |               |                |                       |                |                |               |               |
| Dichlorodifluoromethane     | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Chloromethane               | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Vinyl Chloride              | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Bromomethane                | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Chloroethane                | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Trichlorofluoromethane      | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,1-Dichloroethene          | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Acetone                     | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Carbon Disulfide            | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Methylene Chloride          | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| trans-1,2-Dichloroethene    | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,1-Dichloroethane          | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 2,2-Dichloropropane         | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| cis-1,2-Dichloroethene      | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 2-Butanone                  | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Bromochloromethane          | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Chloroform                  | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,1,1-Trichloroethane       | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Carbon Tetrachloride        | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,1-Dichloropropene         | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Benzene                     | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,2-Dichloroethane          | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Trichloroethene             | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,2-Dichloropropane         | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Dibromomethane              | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Bromodichloromethane        | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| cis-1,3-Dichloropropene     | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 4-Methyl-2-Pentanone        | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Toluene                     | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| trans-1,3-Dichloropropene   | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,1,2-Trichloroethane       | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Tetrachloroethene           | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,3-Dichloropropane         | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 2-Hexanone                  | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Dibromochloromethane        | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,2-Dibromoethane           | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Chlorobenzene               | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,1,1,2-Tetrachloroethane   | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Ethylbenzene                | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Styrene                     | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Bromoform                   | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Isopropylbenzene            | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Bromobenzene                | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,1,2,2-Tetrachloroethane   | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,2,3-Trichloropropane      | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| n-Propylbenzene             | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 2-Chlorotoluene             | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 4-Chlorotoluene             | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,3,5-Trimethylbenzene      | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| tert-Butylbenzene           | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,2,4-Trimethylbenzene      | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| sec-Butylbenzene            | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,3-Dichlorobenzene         | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,4-Dichlorobenzene         | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| p-Isopropyltoluene          | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,2-Dichlorobenzene         | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| n-Butylbenzene              | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,2-Dibromo-3-Chloropropane | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,2,4-Trichlorobenzene      | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Hexachlorobutadiene         | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Naphthalene                 | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| 1,2,3-Trichlorobenzene      | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |
| Xylene (total)              | µg/L          | NS             | NS                    | NS             | NS             | NS            | NS            |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | COMPOUND UNITS | PHASE I                                | PHASE I                                    | PHASE I   | PHASE II                   | PHASE II                                | PHASE I                           | PHASE I                             |
|-----------------------------------|----------------|--|--|---|----------------------------|---|-----------------------------------|-------------------------------------|
|                                   |                | WATER PT-20 01/17/92 PT-20(2,3) 182706 | WATER PT-20 01/17/92 PT-20RE(2,3,4) 182706 | WATER PT-20 01/17/92 PT-20(2,3) Filtered 162713 | WATER PT20 07/12/93 168796 | WATER PT20 RE 07/12/93 PT20 RE 168796R1 | WATER PT-21 01/17/92 PT-21 162707 | WATER PT-21 01/25/92CK PT-21 183069 |
| SEMIVOLATILES                     |                |  |  |   |                            |   |                                   |                                     |
| Phenol                            | µg/L           | 28 R                                   | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| bis(2-Chloroethyl) ether          | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2-Chlorophenol                    | µg/L           | 34 R                                   | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 1,3-Dichlorobenzene               | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 1,4-Dichlorobenzene               | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Benzyl Alcohol                    | µg/L           | 11 U R                                 | 10 U J                                     | NS  | NS                         | NS                                      | NS                                | 10 U                                |
| 1,2-Dichlorobenzene               | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2-Methylphenol                    | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| bis(2-Chloropropyl) ether         | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 4-Methylphenol                    | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| N-Nitroso-di-n-propylamine        | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Hexachloroethane                  | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Nitrobenzene                      | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Isophorone                        | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2-Nitrophenol                     | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2,4-Dimethylphenol                | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Benzic acid                       | µg/L           | 64 U R                                 | 60 U J                                     | NS  | NS                         | NS                                      | NS                                | 60 U                                |
| bis(2-Chloroethoxy) methane       | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2,4-Dichlorophenol                | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 1,2,4-Trichlorobenzene            | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Naphthalene                       | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 4-Chloroaniline                   | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Hexachlorobutadiene               | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 4-Chloro-3-methylphenol           | µg/L           | 21 R                                   | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2-Methylnaphthalene               | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Hexachlorocyclopentadiene         | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2,4,6-Trichlorophenol             | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2,4,6-Trichlorophenol             | µg/L           | 64 U R                                 | 60 U J                                     | NS  | 26 U                       | NS                                      | NS                                | 60 U                                |
| 2-Chloronaphthalene               | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2-Nitroaniline                    | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Dimethylphthalate                 | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Acenaphthylene                    | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2,6-Dinitrotoluene                | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 3-Nitroaniline                    | µg/L           | 64 U R                                 | 60 U J                                     | NS  | 26 U                       | NS                                      | NS                                | 60 U                                |
| Acenaphthene                      | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2,4-Dinitrophenol                 | µg/L           | 64 U R                                 | 60 U J                                     | NS  | 26 U                       | NS                                      | NS                                | 60 U                                |
| 4-Nitrophenol                     | µg/L           | 9 R                                    | 60 U J                                     | NS  | 26 U                       | NS                                      | NS                                | 60 U                                |
| Dibenzofuran                      | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 2,4-Dinitrotoluene                | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Diethylphthalate                  | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 4-Chlorophenyl-phenylether        | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Fluorene                          | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 4-Nitroaniline                    | µg/L           | 64 U R                                 | 60 U J                                     | NS  | 26 U                       | NS                                      | NS                                | 60 U                                |
| 4,6-Dinitro-2-methylphenol        | µg/L           | 64 U R                                 | 60 U J                                     | NS  | 26 U                       | NS                                      | NS                                | 60 U                                |
| N-Nitrosodiphenylamine (1)        | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 4-Bromophenyl-phenylether         | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Hexachlorobenzene                 | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Perfluorophenol                   | µg/L           | 9 R                                    | 60 U J                                     | NS  | 26 U                       | NS                                      | NS                                | 60 U                                |
| Phenanthrene                      | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Anthracene                        | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Carbazole                         | µg/L           | NS                                     | NS   | NS  | 10 U                       | NS                                      | NS                                | NS                                  |
| Di-n-butylphthalate               | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 2 J                        | NS                                      | NS                                | 10 U                                |
| Fluoranthene                      | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Pyrene                            | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Butylbenzylphthalate              | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| 3,3'-Dichlorobenzidine            | µg/L           | 22 U R                                 | 20 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 20 U                                |
| Benzo(a)anthracene                | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Chrysene                          | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| bis(2-Ethylhexyl)phthalate        | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 38 U                                |
| Di-n-octylphthalate               | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Benzo(b)fluoranthene              | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Benzo(k)fluoranthene              | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Benzo(a)pyrene                    | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Indeno(1,2,3-cd)pyrene            | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Dibenz(a,h)anthracene             | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |
| Benzo(g,h,i)perylene              | µg/L           | 11 U R                                 | 10 U J                                     | NS  | 10 U                       | NS                                      | NS                                | 10 U                                |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | DATE | ES ID   | LAB ID | COMPOUND | PHASE I WATER<br>PT-20<br>01/17/92<br>PT-20(2,3)<br>152706 | PHASE I WATER<br>PT-20<br>01/17/92<br>PT-20RE(2,3,4)<br>152706 | PHASE I WATER<br>PT-20<br>01/17/92<br>PT-20(2,3)Filtered<br>152713 | PHASE II WATER<br>PT20<br>07/12/93<br>158796 | PHASE II WATER<br>PT20 RE<br>07/10/93<br>PT20 RE<br>158796R1 | PHASE I WATER<br>PT-21<br>01/17/92<br>PT-21<br>152707 | PHASE I WATER<br>PT-21<br>01/25/92CK<br>PT-21<br>153059 |
|------------------------|------|---------|--------|----------|--|--|--|--|--|---|---|
| <b>PESTICIDES/PCBS</b> |      |         |        |          |  |  |  |  |  |   |   |
| alpha-BHC              | µg/L | 0.056 U | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| beta-BHC               | µg/L | 0.056 U | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| delta-BHC              | µg/L | 0.056 U | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| gamma-BHC (Lindane)    | µg/L | 0.056 U | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| Heptachlor             | µg/L | 0.056 U | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| Aldrin                 | µg/L | 0.056 U | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| Heptachlor epoxide     | µg/L | 0.056 U | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| Endosulfan I           | µg/L | 0.056 U | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| Dieldrin               | µg/L | 0.11 U  | NS     | NS       | NS   | 0.1 U  | NS   | NS   | NS   | NS  | NS  |
| 4,4'-DDE               | µg/L | 0.11 U  | NS     | NS       | NS   | 0.1 U  | NS   | NS   | NS   | NS  | NS  |
| Endrin                 | µg/L | 0.11 U  | NS     | NS       | NS   | 0.1 U  | NS   | NS   | NS   | NS  | NS  |
| Endosulfan II          | µg/L | 0.11 U  | NS     | NS       | NS   | 0.1 U  | NS   | NS   | NS   | NS  | NS  |
| 4,4'-DDD               | µg/L | 0.11 U  | NS     | NS       | NS   | 0.1 U  | NS   | NS   | NS   | NS  | NS  |
| Endosulfan sulfate     | µg/L | 0.11 U  | NS     | NS       | NS   | 0.1 U  | NS   | NS   | NS   | NS  | NS  |
| 4,4'-DDT               | µg/L | 0.11 U  | NS     | NS       | NS   | 0.1 U  | NS   | NS   | NS   | NS  | NS  |
| Methoxychlor           | µg/L | 0.56 U  | NS     | NS       | NS   | 0.5 U  | NS   | NS   | NS   | NS  | NS  |
| Endrin ketone          | µg/L | 0.11 U  | NS     | NS       | NS   | 0.1 U  | NS   | NS   | NS   | NS  | NS  |
| Endrin aldehyde        | µg/L | NS      | NS     | NS       | NS   | 0.1 U  | NS   | NS   | NS   | NS  | NS  |
| alpha-Chlordane        | µg/L | 0.56 U  | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| gamma-Chlordane        | µg/L | 0.56 U  | NS     | NS       | NS   | 0.06 U   | NS   | NS   | NS   | NS  | NS  |
| Toxaphene              | µg/L | 1.1 U   | NS     | NS       | NS   | 5 U  | NS   | NS   | NS   | NS  | NS  |
| Aroclor-1016           | µg/L | 0.56 U  | NS     | NS       | NS   | 1 U  | NS   | NS   | NS   | NS  | NS  |
| Aroclor-1221           | µg/L | 0.56 U  | NS     | NS       | NS   | 2 U  | NS   | NS   | NS   | NS  | NS  |
| Aroclor-1232           | µg/L | 0.56 U  | NS     | NS       | NS   | 1 U  | NS   | NS   | NS   | NS  | NS  |
| Aroclor-1242           | µg/L | 0.56 U  | NS     | NS       | NS   | 1 U  | NS   | NS   | NS   | NS  | NS  |
| Aroclor-1248           | µg/L | 0.56 U  | NS     | NS       | NS   | 1 U  | NS   | NS   | NS   | NS  | NS  |
| Aroclor-1254           | µg/L | 1.1 U   | NS     | NS       | NS   | 1 U  | NS   | NS   | NS   | NS  | NS  |
| Aroclor-1260           | µg/L | 1.1 U   | NS     | NS       | NS   | 1 U  | NS   | NS   | NS   | NS  | NS  |
| <b>HERBICIDES</b>      |      |         |        |          |  |  |  |  |  |   |   |
| 2,4-D                  | µg/L | 1 U     | NS     | NS       | NS   | 1 R  | NS   | NS   | NS   | NS  | NS  |
| 2,4-DB                 | µg/L | 1 U     | NS     | NS       | NS   | 1 R  | NS   | NS   | NS   | NS  | NS  |
| 2,4,5-T                | µg/L | 0.1 U   | NS     | NS       | NS   | 0.1 R  | NS   | NS   | NS   | NS  | NS  |
| 2,4,5-TP (Silvex)      | µg/L | 0.1 U   | NS     | NS       | NS   | 0.1 R  | NS   | NS   | NS   | NS  | NS  |
| Dalapon                | µg/L | 2.3 U   | NS     | NS       | NS   | 2.3 R  | NS   | NS   | NS   | NS  | NS  |
| Dicamba                | µg/L | 0.1 U   | NS     | NS       | NS   | 0.1 R  | NS   | NS   | NS   | NS  | NS  |
| Dichloroprop           | µg/L | 1 U     | NS     | NS       | NS   | 1 R  | NS   | NS   | NS   | NS  | NS  |
| Dinoseb                | µg/L | 0.5 U   | NS     | NS       | NS   | 0.5 R  | NS   | NS   | NS   | NS  | NS  |
| MCPA                   | µg/L | 100 U   | NS     | NS       | NS   | 100 R  | NS   | NS   | NS   | NS  | NS  |
| MCPP                   | µg/L | 100 U   | NS     | NS       | NS   | 100 R  | NS   | NS   | NS   | NS  | NS  |
| <b>METALS</b>          |      |         |        |          |  |  |  |  |  |   |   |
| Aluminum               | µg/L | 10800   | NS     | NS       | 24.4 U   | 124 J  | NS   | NS   | NS   | NS  | 14200   |
| Antimony               | µg/L | 53.1 U  | NS     | NS       | 52.9 U   | 62.1 R   | NS   | NS   | NS   | NS  | 52.9 U  |
| Arsenic                | µg/L | 3.5 U   | NS     | NS       | 3.5 U  | 1.4 U  | NS   | NS   | NS   | NS  | 3.5 U   |
| Barium                 | µg/L | 124 J   | NS     | NS       | 65.3 R   | 73.9 J   | NS   | NS   | NS   | NS  | 230   |
| Beryllium              | µg/L | 1.8 R   | NS     | NS       | 1.1 U  | 0.9 U  | NS   | NS   | NS   | NS  | 1.7 R   |
| Cadmium                | µg/L | 9 U     | NS     | NS       | 3 U  | 2.8 U  | NS   | NS   | NS   | NS  | 3.4 J   |
| Calcium                | µg/L | 145000  | NS     | NS       | 125000   | 143000   | NS   | NS   | NS   | NS  | 185000  |
| Chromium               | µg/L | 18.5    | NS     | NS       | 6.1 U  | 2.7 U  | NS   | NS   | NS   | NS  | 18.8  |
| Cobalt                 | µg/L | 20.4 U  | NS     | NS       | 20.3 U   | 5.5 U  | NS   | NS   | NS   | NS  | 20.3 U  |
| Copper                 | µg/L | 11.8 J  | NS     | NS       | 10.1 U   | 4.7 U  | NS   | NS   | NS   | NS  | 17.8 J  |
| Iron                   | µg/L | 18000   | NS     | NS       | 8.1 R  | 197 J  | NS   | NS   | NS   | NS  | 20100   |
| Lead                   | µg/L | 3.8 R   | NS     | NS       | 1.2 U  | 0.6 U  | NS   | NS   | NS   | NS  | 7 R   |
| Magnesium              | µg/L | 17400 J | NS     | NS       | 13600  | 14700  | NS   | NS   | NS   | NS  | 34300 J   |
| Manganese              | µg/L | 378 J   | NS     | NS       | 4.8 U  | 35.1   | NS   | NS   | NS   | NS  | 666 J   |
| Mercury                | µg/L | 0.03 U  | NS     | NS       | 0.03 U   | 0.09 UJ  | NS   | NS   | NS   | NS  | 0.03 U  |
| Nickel                 | µg/L | 17.1 J  | NS     | NS       | 14.7 U   | 7.5 U  | NS   | NS   | NS   | NS  | 19.6 J  |
| Potassium              | µg/L | 3440 J  | NS     | NS       | 655 J  | 1800 J   | NS   | NS   | NS   | NS  | 5300  |
| Selenium               | µg/L | 1 U J   | NS     | NS       | 1 U  | 1.5 U  | NS   | NS   | NS   | NS  | 1 U J   |
| Silver                 | µg/L | 3.4 U   | NS     | NS       | 3.4 U  | 5.5 U  | NS   | NS   | NS   | NS  | 3.4 U   |
| Sodium                 | µg/L | 25100   | NS     | NS       | 33900  | 29700  | NS   | NS   | NS   | NS  | 47800   |
| Thallium               | µg/L | 3.2 U   | NS     | NS       | 3.2 U  | 2.6 U  | NS   | NS   | NS   | NS  | 3.2 U   |
| Vanadium               | µg/L | 18.3 J  | NS     | NS       | 9.4 U  | 6.8 U  | NS   | NS   | NS   | NS  | 21.1 J  |
| Zinc                   | µg/L | 60.7 R  | NS     | NS       | 16.7 R   | 5.1 J  | NS   | NS   | NS   | NS  | 773 J   |
| Cyanide                | µg/L | 10 U    | NS     | NS       | NS   | 1.2 U  | NS   | NS   | NS   | NS  | 10 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE I WATER  | PHASE II WATER | PHASE I WATER | PHASE I WATER  | PHASE II WATER | PHASE II WATER | PHASE I WATER |      |
|----------------------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|------|
| DATE                       | PT-21          | PT21           | PT-22         | PT-22          | PT22           | PT22RE         | PT-23         |      |
| ES ID                      | 01/23/92       | 07/12/93       | 01/09/92      | 01/09/92       | 01/09/92       | 07/12/93       | 01/14/92      |      |
| LAB ID                     | PT-21 Filtered | PT21           | PT-22         | PT-22 Filtered | PT22           | PT22RE         | PT-23         |      |
| COMPOUND                   | 152080         | 188798         | 152180        | 152202         | 188799         | 188799R1       | 152606        |      |
| UNITS                      |                |                |               |                |                |                |               |      |
| Chloromethane              | µg/L           | NS             | 10 U          | 10 U           | NS             | 10 U           | NS            | 10 U |
| Bromomethane               | µg/L           | NS             | 10 U          | 10 U           | NS             | 10 U           | NS            | 10 U |
| Vinyl Chloride             | µg/L           | NS             | 10 U          | 10 U           | NS             | 10 U           | NS            | 10 U |
| Chloroethane               | µg/L           | NS             | 10 U          | 10 U           | NS             | 10 U           | NS            | 10 U |
| Methylene Chloride         | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Acetone                    | µg/L           | NS             | 10 U          | 10 U           | NS             | 10 U           | NS            | 10 U |
| Carbon Disulfide           | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| 1,1-Dichloroethene         | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| 1,1-Dichloroethane         | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| 1,2-Dichloroethene (total) | µg/L           | NS             | 14            | 100            | NS             | 150            | NS            | 5 U  |
| Chloroform                 | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| 1,2-Dichloroethane         | µg/L           | NS             | 10 U          | 4 J            | NS             | 6 J            | NS            | 5 U  |
| 2-Butanone                 | µg/L           | NS             | 10 U          | 10 U           | NS             | 10 U           | NS            | 10 U |
| 1,1,1-Trichloroethane      | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Carbon Tetrachloride       | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Vinyl Acetate              | µg/L           | NS             | NS            | 10 U           | NS             | NS             | NS            | 10 U |
| Bromochloromethane         | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| 1,2-Dichloropropane        | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| cis-1,3-Dichloropropene    | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Trichloroethene            | µg/L           | NS             | 3 J           | 80             | NS             | 90             | NS            | 5 U  |
| Dibromochloromethane       | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| 1,1,2-Trichloroethane      | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Benzene                    | µg/L           | NS             | 6 J           | 5 U            | NS             | 10 U           | NS            | 5 U  |
| trans-1,3-Dichloropropene  | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Bromoform                  | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| 4-Methyl-2-Pentanone       | µg/L           | NS             | 10 U          | 10 U           | NS             | 10 U           | NS            | 10 U |
| 2-Hexanone                 | µg/L           | NS             | 10 U          | 10 U           | NS             | 10 U           | NS            | 10 U |
| Tetrachloroethane          | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| 1,1,2,2-Tetrachloroethane  | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Toluene                    | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Chlorobenzene              | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Ethylbenzene               | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Styrene                    | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |
| Xylene (total)             | µg/L           | NS             | 10 U          | 5 U            | NS             | 10 U           | NS            | 5 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                    | MATRX LOCATION DATE ES ID LAB ID UNITS | PHASE I                                    | PHASE II                   | PHASE I                           | PHASE I                                    | PHASE II                        | PHASE II                              | PHASE I                           |
|-----------------------------|--|--|----------------------------|-----------------------------------|--|---------------------------------|---------------------------------------|-----------------------------------|
|                             |  | WATER PT-21 01/23/92 PT-21 Filtered 153050 | WATER PT21 07/12/93 155795 | WATER PT-22 01/09/92 PT-22 152150 | WATER PT-22 01/09/92 PT-22 Filtered 152202 | WATER PT22 07/12/93 PT22 155799 | WATER PT22RE 07/12/93 PT22RE 155799R1 | WATER PT-23 01/14/92 PT-23 152505 |
| VOC's (524.2)               |  |  |                            |                                   |  |                                 |                                       |                                   |
| Dichlorodifluoromethane     | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Chloromethane               | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Vinyl Chloride              | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Bromomethane                | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Chloroethane                | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Trichlorofluoromethane      | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,1-Dichloroethene          | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Acetone                     | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Carbon Disulfide            | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Methylene Chloride          | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| trans-1,2-Dichloroethene    | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,1-Dichloroethane          | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 2,2-Dichloropropane         | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| cis-1,2-Dichloroethene      | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 2-Butanone                  | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Bromochloromethane          | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Chloroform                  | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,1,1-Trichloroethane       | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Carbon Tetrachloride        | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,1-Dichloropropene         | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Benzene                     | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,2-Dichloroethane          | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Trichloroethene             | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,2-Dichloropropane         | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Dibromomethane              | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Bromodichloromethane        | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| cis-1,3-Dichloropropene     | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 4-Methyl-2-Pentanone        | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Toluene                     | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| trans-1,3-Dichloropropene   | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,1,2-Trichloroethane       | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Tetrachloroethene           | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,3-Dichloropropane         | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 2-Hexanone                  | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Dibromochloromethane        | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,2-Dibromoethane           | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Chlorobenzene               | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,1,1,2-Tetrachloroethane   | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Ethylbenzene                | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Styrene                     | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Bromoform                   | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Isopropylbenzene            | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Bromobenzene                | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,1,2,2-Tetrachloroethane   | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,2,3-Trichloropropane      | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| n-Propylbenzene             | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 2-Chlorotoluene             | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 4-Chlorotoluene             | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,3,5-Trimethylbenzene      | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| tert-Butylbenzene           | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,2,4-Trimethylbenzene      | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| sec-Butylbenzene            | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,3-Dichlorobenzene         | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,4-Dichlorobenzene         | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| p-Isopropyltoluene          | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,2-Dichlorobenzene         | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| n-Butylbenzene              | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,2-Dibromo-3-Chloropropane | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,2,4-Trichlorobenzene      | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Hexachlorobutadiene         | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Naphthalene                 | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| 1,2,3-Trichlorobenzene      | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |
| Xylene (total)              | µg/L                                   | NS   | NS                         | NS                                | NS   | NS                              | NS                                    | NS                                |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX LOCATION<br>DATE<br>E8 ID<br>LAB ID<br>UNITS | PHASE I  | PHASE II                                     | PHASE I                                       | PHASE I  | PHASE II                                    | PHASE II  | PHASE I                                       |
|------------------------------|---|--|--|---|--|---|---|---|
|                              |   | WATER<br>PT-21<br>01/23/92<br>PT-21 Filtered<br>183080 | WATER<br>PT21<br>07/12/93<br>PT-21<br>188798 | WATER<br>PT-22<br>01/09/92<br>PT-22<br>152180 | WATER<br>PT-22<br>01/09/92<br>PT-22 Filtered<br>182202 | WATER<br>PT22<br>07/12/93<br>PT22<br>186799 | WATER<br>PT22RE<br>07/10/93<br>PT22RE<br>188799R1 | WATER<br>PT-23<br>01/14/92<br>PT-23<br>182608 |
| SEMIVOLATILES                |   |  |  |   |  |   |   |   |
| Phenol                       | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| bis(2-Chloroethyl) ether     | µg/L  | NS   | NS   | 11 U  | NS   | 0.6 J                                       | NS  | 12 U  |
| 2-Chlorophenol               | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 1,3-Dichlorobenzene          | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 1,4-Dichlorobenzene          | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Benzyl Alcohol               | µg/L  | NS   | NS   | 11 U  | NS   | NS  | NS  | 12 U  |
| 1,2-Dichlorobenzene          | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2-Methylphenol               | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| bis(2-Chloroisopropyl) ether | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 4-Methylphenol               | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| N-Nitroso-d-n-propylamine    | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Hexachloroethane             | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Nitrobenzene                 | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Isophorone                   | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2-Nitrophenol                | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2,4-Dimethylphenol           | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Benzoic acid                 | µg/L  | NS   | NS   | 54 U  | NS   | NS  | NS  | 61 U  |
| bis(2-Chloroethoxy) methane  | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2,4-Dichlorophenol           | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 1,2,4-Trichlorobenzene       | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Naphthalene                  | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 4-Chloroaniline              | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Hexachlorobutadiene          | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 4-Chloro-3-methylphenol      | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2-Methylnaphthalene          | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Hexachlorocyclopentadiene    | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2,4,6-Trichlorophenol        | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2,4,8-Trichlorophenol        | µg/L  | NS   | NS   | 64 U  | NS   | 24 U  | NS  | 61 U  |
| 2-Chloronaphthalene          | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2-Nitroaniline               | µg/L  | NS   | NS   | 64 U  | NS   | 24 U  | NS  | 61 U  |
| Dimethylphthalate            | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Acenaphthylene               | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2,6-Dinitrotoluene           | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 3-Nitroaniline               | µg/L  | NS   | NS   | 54 U  | NS   | 24 U  | NS  | 61 U  |
| Acenaphthene                 | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2,4-Dinitrophenol            | µg/L  | NS   | NS   | 64 U  | NS   | 24 U  | NS  | 61 U  |
| 4-Nitrophenol                | µg/L  | NS   | NS   | 64 U  | NS   | 24 U  | NS  | 61 U  |
| Dibenzofuran                 | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 2,4-Dinitrotoluene           | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Diethylphthalate             | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 4-Chlorophenyl-phenylether   | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Fluorene                     | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 4-Nitroaniline               | µg/L  | NS   | NS   | 64 U  | NS   | 24 U  | NS  | 61 U  |
| 4,6-Dinitro-2-methylphenol   | µg/L  | NS   | NS   | 64 U  | NS   | 24 U  | NS  | 61 U  |
| N-Nitrosodiphenylamine (1)   | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 4-Bromophenyl-phenylether    | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Hexachlorobenzene            | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Pentachlorophenol            | µg/L  | NS   | NS   | 64 U  | NS   | 26 U  | NS  | 61 U  |
| Phenanthrene                 | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Anthracene                   | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Carbazole                    | µg/L  | NS   | NS   | NS  | NS   | 10 U  | NS  | NS  |
| Di-n-butylphthalate          | µg/L  | NS   | NS   | 11 U  | NS   | 3 J   | NS  | 12 U  |
| Fluoranthene                 | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Pyrene                       | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Butylbenzylphthalate         | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| 3,3'-Dichlorobenzidine       | µg/L  | NS   | NS   | 22 U  | NS   | 10 U  | NS  | 24 U  |
| Benzo(a)anthracene           | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Chrysene                     | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| bis(2-Ethylhexyl)phthalate   | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Di-n-octylphthalate          | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Benzo(b)fluoranthene         | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Benzo(k)fluoranthene         | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Benzo(a)pyrene               | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Indeno(1,2,3-cd)pyrene       | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Dibenz(a,h)anthracene        | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |
| Benzo(g,h,i)perylene         | µg/L  | NS   | NS   | 11 U  | NS   | 10 U  | NS  | 12 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE I WATER |
|------------------------|---------------|----------------|---------------|---------------|----------------|----------------|----------------|---------------|
| DATE                   | PT-21         | PT21           | PT-22         | PT-22         | PT22           | PT22RE         | PT-23          | PT-23         |
| ES ID                  | PT-21Filled   | PT21           | PT-22         | PT-22         | PT-22Filled    | PT22           | PT22RE         | PT-23         |
| LAB ID                 | 153060        | 188798         | 162160        | 162202        | 188799         | 188799R1       | 188799R1       | 152506        |
| COMPOUND               | UNITS         |                |               |               |                |                |                |               |
| <b>PESTICIDES/PCBS</b> |               |                |               |               |                |                |                |               |
| alpha-BHC              | µg/L          | NS             | NS            | 0.052 U       | NS             | 0.06 U         | NS             | 0.061 U       |
| beta-BHC               | µg/L          | NS             | NS            | 0.052 U       | NS             | 0.06 U         | NS             | 0.061 U       |
| delta-BHC              | µg/L          | NS             | NS            | 0.052 U       | NS             | 0.06 U         | NS             | 0.061 U       |
| gamma-BHC (Lindane)    | µg/L          | NS             | NS            | 0.052 U       | NS             | 0.06 U         | NS             | 0.061 U       |
| Heptachlor             | µg/L          | NS             | NS            | 0.052 U       | NS             | 0.06 U         | NS             | 0.061 U       |
| Aldrin                 | µg/L          | NS             | NS            | 0.052 U       | NS             | 0.06 U         | NS             | 0.061 U       |
| Heptachlor epoxide     | µg/L          | NS             | NS            | 0.052 U       | NS             | 0.06 U         | NS             | 0.061 U       |
| Endosulfan I           | µg/L          | NS             | NS            | 0.052 U       | NS             | 0.06 U         | NS             | 0.061 U       |
| Dieldrin               | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 U          | NS             | 0.12 U        |
| 4,4'-DDE               | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 U          | NS             | 0.12 U        |
| Endrin                 | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 U          | NS             | 0.12 U        |
| Endosulfan II          | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 U          | NS             | 0.12 U        |
| 4,4'-DDD               | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 U          | NS             | 0.12 U        |
| Endosulfan sulfate     | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 U          | NS             | 0.12 U        |
| 4,4'-DDT               | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 U          | NS             | 0.12 U        |
| Methoxychlor           | µg/L          | NS             | NS            | 0.52 U        | NS             | 0.6 U          | NS             | 0.61 U        |
| Endrin ketone          | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 U          | NS             | 0.12 U        |
| Endrin aldehyde        | µg/L          | NS             | NS            | NS            | NS             | 0.1 U          | NS             | NS            |
| alpha-Chlordane        | µg/L          | NS             | NS            | 0.52 U        | NS             | 0.06 U         | NS             | 0.61 U        |
| gamma-Chlordane        | µg/L          | NS             | NS            | 0.52 U        | NS             | 0.06 U         | NS             | 0.61 U        |
| Toxaphene              | µg/L          | NS             | NS            | 1 U           | NS             | 8 U            | NS             | 1.2 U         |
| Aroclor-1016           | µg/L          | NS             | NS            | 0.52 U        | NS             | 1 U            | NS             | 0.61 U        |
| Aroclor-1221           | µg/L          | NS             | NS            | 0.52 U        | NS             | 2 U            | NS             | 0.61 U        |
| Aroclor-1232           | µg/L          | NS             | NS            | 0.52 U        | NS             | 1 U            | NS             | 0.61 U        |
| Aroclor-1242           | µg/L          | NS             | NS            | 0.52 U        | NS             | 1 U            | NS             | 0.61 U        |
| Aroclor-1248           | µg/L          | NS             | NS            | 0.52 U        | NS             | 1 U            | NS             | 0.61 U        |
| Aroclor-1254           | µg/L          | NS             | NS            | 1 U           | NS             | 1 U            | NS             | 1.2 U         |
| Aroclor-1260           | µg/L          | NS             | NS            | 1 U           | NS             | 1 U            | NS             | 1.2 U         |
| <b>HERBICIDES</b>      |               |                |               |               |                |                |                |               |
| 2,4-D                  | µg/L          | NS             | NS            | 1 U           | NS             | 1 R            | 1 R            | 1 U           |
| 2,4-DB                 | µg/L          | NS             | NS            | 1 U           | NS             | 1 R            | 1 R            | 1 U           |
| 2,4,6-T                | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 R          | 0.1 R          | 0.1 U         |
| 2,4,6-TP (Silvex)      | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 R          | 0.1 R          | 0.1 U         |
| Dalapon                | µg/L          | NS             | NS            | 2.4 U         | NS             | 2.3 R          | 6.4 J          | 2.4 U         |
| Dicamba                | µg/L          | NS             | NS            | 0.1 U         | NS             | 0.1 R          | 0.1 R          | 0.1 U         |
| Dichloroprop           | µg/L          | NS             | NS            | 1 U           | NS             | 1 R            | 1 R            | 1 U           |
| Dinoseb                | µg/L          | NS             | NS            | 0.6 U         | NS             | 0.6 R          | 0.51 R         | 0.5 U         |
| MCPA                   | µg/L          | NS             | NS            | 100 U         | NS             | 100 R          | 100 R          | 100 U         |
| MCPP                   | µg/L          | NS             | NS            | 100 U         | NS             | 100 R          | 100 R          | 100 U         |
| <b>METALS</b>          |               |                |               |               |                |                |                |               |
| Aluminum               | µg/L          | 24.4 U         | NS            | 4080          | 24.4 U         | 178 J          | NS             | 2000          |
| Antimony               | µg/L          | 52.9 U         | NS            | 55.8 U J      | 53 U           | 80 U           | NS             | 53 U          |
| Arsenic                | µg/L          | 3.5 U          | NS            | 3.5 U         | 3.5 U          | 1.4 U          | NS             | 3.5 U         |
| Barium                 | µg/L          | 108 R          | NS            | 148 J         | 42.4 R         | 69.8 J         | NS             | 45.4 R        |
| Beryllium              | µg/L          | 1.1 U          | NS            | 2.3 R         | 2.4 R          | 0.8 U          | NS             | 2.1 R         |
| Cadmium                | µg/L          | 3 U            | NS            | 2.9 U         | 3 U            | 2.8 U          | NS             | 3 U           |
| Calcium                | µg/L          | 130000         | NS            | 197000 J      | 128000         | 147000         | NS             | 98200         |
| Chromium               | µg/L          | 6.1 U          | NS            | 8.5 J         | 6.2 U          | 2.7 U          | NS             | 6.6 J         |
| Cobalt                 | µg/L          | 20.3 U         | NS            | 19.8 U        | 20.4 U         | 6.6 U          | NS             | 20.4 U        |
| Copper                 | µg/L          | 10.1 U         | NS            | 14.4 U        | 10.1 U         | 4.7 U          | NS             | 10.1 U        |
| Iron                   | µg/L          | 25.2 R         | NS            | 6010          | 6.8 U          | 214 J          | NS             | 2510          |
| Lead                   | µg/L          | 1.2 U          | NS            | 10.5          | 1.2 U          | 0.78 J         | NS             | 1.2 U         |
| Magnesium              | µg/L          | 25800          | NS            | 18200 J       | 16800          | 17400          | NS             | 11200         |
| Manganese              | µg/L          | 68.8           | NS            | 1140          | 4.8 U          | 57.8           | NS             | 80.4          |
| Mercury                | µg/L          | 0.05 U         | NS            | 0.18 R        | 0.12 R         | 0.09 UJ        | NS             | 0.11 R        |
| Nickel                 | µg/L          | 14.7 U         | NS            | 15.9 U        | 14.7 U         | 7.5 U          | NS             | 14.7 U        |
| Potassium              | µg/L          | 4790 J         | NS            | 632 U         | 380 J          | 1940 J         | NS             | 1050 J        |
| Selenium               | µg/L          | 1 U            | NS            | 1 U           | 1 U            | 1.8 U          | NS             | 1.3 U         |
| Silver                 | µg/L          | 3.4 U          | NS            | 9.1 U         | 3.4 U          | 6.5 U          | NS             | 3.4 U         |
| Sodium                 | µg/L          | 44400          | NS            | 52600 J       | 54100          | 64900          | NS             | 4790 J        |
| Thallium               | µg/L          | 3.2 U          | NS            | 3.2 U         | 3.2 U          | 2.6 U          | NS             | 3.2 U         |
| Vanadium               | µg/L          | 9.4 U          | NS            | 30.5 U        | 9.4 U          | 6.8 U          | NS             | 9.4 U         |
| Zinc                   | µg/L          | 170 R          | NS            | 78.6 R        | 8.4 U          | 8.5 J          | NS             | 47.6 R        |
| Cyanide                | µg/L          | NS             | NS            | 10 U          | NS             | 1.2 U          | NS             | 10 U          |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE II WATER | PHASE I WATER |
|----------------------------|---------------|----------------|---------------|---------------|----------------|----------------|---------------|
| DATE                       | PT-23         | PT23           | PT-24         | PT-24         | PT-24          | PT24RE         | PT-25         |
| ES ID                      | 01/14/92      | 06/24/93       | 01/14/92      | 01/14/92      | 01/14/92       | 07/10/93       | 01/16/92      |
| LAB ID                     | PT-23Filtered | PT23           | PT-24         | PT-24Filtered | PT-24Filtered  | PT24RE         | PT-25         |
| UNITS                      | 152611        | 167344         | 152607        | 152612        | 168729         | 168729         | 152676        |
| Chloromethane              | NS            | NS             | 10 U          | NS            | 10 U           | NS             | 10 U          |
| Bromomethane               | NS            | NS             | 10 U          | NS            | 10 U           | NS             | 10 U          |
| Vinyl Chloride             | NS            | NS             | 10 U          | NS            | 10 U           | NS             | 10 U          |
| Chloroethane               | NS            | NS             | 10 U          | NS            | 10 U           | NS             | 10 U          |
| Methylene Chloride         | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Acetone                    | NS            | NS             | 10 U          | NS            | 10 U           | NS             | 10 U          |
| Carbon Disulfide           | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| 1,1-Dichloroethane         | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| 1,1-Dichloroethane         | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| 1,2-Dichloroethane (total) | NS            | NS             | 100           | NS            | 62             | NS             | 5 U           |
| Chloroform                 | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| 1,2-Dichloroethane         | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| 2-Butanone                 | NS            | NS             | 10 U          | NS            | 10 U           | NS             | 10 U          |
| 1,1,1-Trichloroethane      | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Carbon Tetrachloride       | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Vinyl Acetate              | NS            | NS             | 10 U          | NS            | NS             | NS             | 10 U          |
| Bromodichloromethane       | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| 1,2-Dichloropropane        | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| cis-1,3-Dichloropropene    | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Trichloroethene            | NS            | NS             | 4 J           | NS            | 4 J            | NS             | 5 U           |
| Dibromochloromethane       | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| 1,1,2-Trichloroethane      | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Benzene                    | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| trans-1,3-Dichloropropene  | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Bromoform                  | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| 4-Methyl-2-Pentanone       | NS            | NS             | 10 U          | NS            | 10 U           | NS             | 10 U          |
| 2-Hexanone                 | NS            | NS             | 10 U          | NS            | 10 U           | NS             | 10 U          |
| Tetrachloroethene          | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| 1,1,2,2-Tetrachloroethane  | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Toluene                    | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Chlorobenzene              | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Ethylbenzene               | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Styrene                    | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |
| Xylene (total)             | NS            | NS             | 5 U           | NS            | 10 U           | NS             | 5 U           |





SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRX LOCATION               | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE I WATER |
|------------------------------|---------------|----------------|---------------|---------------|----------------|----------------|----------------|---------------|
| DATE                         | PT-23         | PT23           | PT-24         | PT-24         | PT24           | PT24RE         | PT-25          | PT-25         |
| ES ID                        | 01/14/92      | 06/24/93       | 01/14/92      | 01/14/92      | 07/10/93       | 07/10/93       | 01/16/92       | 01/16/92      |
| LAB ID                       | PT-23Filtered | PT23           | PT-24         | PT-24Filtered | PT24           | PT24RE         | PT-25          | PT-25         |
| UNITS                        | 162611        | 167344         | 162607        | 162612        | 166729         | 166729         | 162676         | 162676        |
| SEMIVOLATILES                |               |                |               |               |                |                |                |               |
| Phenol                       | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| bis(2-Chloroethyl) ether     | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2-Chlorophenol               | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 1,3-Dichlorobenzene          | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 1,4-Dichlorobenzene          | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Benzyl Alcohol               | µg/L          | NS             | NS            | NS            | NS             | NS             | NS             | NS            |
| 1,2-Dichlorobenzene          | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2-Methylphenol               | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| bis(2-Chloroisopropyl) ether | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 4-Methylphenol               | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| N-Nitroso-d-n-propylamine    | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Hexachloroethane             | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Nitrobenzene                 | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Isophorone                   | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2-Nitrophenol                | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2,4-Dimethylphenol           | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Benzoic acid                 | µg/L          | NS             | NS            | 56 U          | NS             | NS             | NS             | 56 U          |
| bis(2-Chloroethoxy) methane  | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2,4-Dichlorophenol           | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 1,2,4-Trichlorobenzene       | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Naphthalene                  | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 4-Chloroaniline              | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Hexachlorobutadiene          | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 4-Chloro-3-methylphenol      | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2-Methylnaphthalene          | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Hexachlorocyclopentadiene    | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2,4,6-Trichlorophenol        | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2,4,8-Trichlorophenol        | µg/L          | NS             | 25 U          | 56 U          | NS             | 25 U           | 25 U           | 56 U          |
| 2-Chloronaphthalene          | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2-Nitroaniline               | µg/L          | NS             | 25 U          | 56 U          | NS             | 25 U           | 25 U           | 56 U          |
| Dimethylphthalate            | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Acenaphthylene               | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2,6-Dinitrotoluene           | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 3-Nitroaniline               | µg/L          | NS             | 25 U          | 56 U          | NS             | 25 U           | 25 U           | 56 U          |
| Acenaphthene                 | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2,4-Dinitrophenol            | µg/L          | NS             | 25 U          | 56 U          | NS             | 25 U           | 25 U           | 56 U          |
| 4-Nitrophenol                | µg/L          | NS             | 25 U          | 56 U          | NS             | 25 U           | 25 U           | 56 U          |
| Dibenzofuran                 | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 2,4-Dinitrotoluene           | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Diethylphthalate             | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 4-Chlorophenyl-phenylether   | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Fluorene                     | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 4-Nitroaniline               | µg/L          | NS             | 25 U          | 56 U          | NS             | 25 U           | 25 U           | 56 U          |
| 4,6-Dinitro-2-methylphenol   | µg/L          | NS             | 25 U          | 56 U          | NS             | 25 U           | 25 U           | 56 U          |
| N-Nitrosodiphenylamine (1)   | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 4-Bromophenyl-phenylether    | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Hexachlorobenzene            | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Pentachlorophenol            | µg/L          | NS             | 25 U          | 56 U          | NS             | 25 U           | 25 U           | 56 U          |
| Phenanthrene                 | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Anthracene                   | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | NS            |
| Carbazole                    | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Di-n-butylphthalate          | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Fluoranthene                 | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Pyrene                       | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Butylbenzylphthalate         | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| 3,3'-Dichlorobenzidine       | µg/L          | NS             | 10 U          | 22 U          | NS             | 10 U           | 10 U           | 22 U          |
| Benzo(a)anthracene           | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Chrysene                     | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| bis(2-Ethylhexyl)phthalate   | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Di-n-octylphthalate          | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Benzo(b)fluoranthene         | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Benzo(k)fluoranthene         | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Benzo(a)pyrene               | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Indeno(1,2,3-cd)pyrene       | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Dibenz(a,h)anthracene        | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |
| Benzo(g,h,i)perylene         | µg/L          | NS             | 10 U          | 11 U          | NS             | 10 U           | 10 U           | 11 U          |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE II WATER | PHASE I WATER |         |
|------------------------|---------------|----------------|---------------|---------------|----------------|----------------|---------------|---------|
| DATE                   | PT-23         | PT23           | PT-24         | PT-24         | PT24           | PT24RE         | PT-26         |         |
| ES ID                  | 01/14/92      | 06/24/93       | 01/14/92      | 01/14/92      | 07/10/93       | 07/10/93       | 01/15/92      |         |
| LAB ID                 | PT-23Filtered | PT23           | PT-24         | PT-24Filtered | PT24           | PT24RE         | PT-26         |         |
| COMPOUND               | 162611        | 167344         | 162607        | 162612        | 166729         | 166729         | 162676        |         |
| UNITS                  |               |                |               |               |                |                |               |         |
| <b>PESTICIDES/PCBS</b> |               |                |               |               |                |                |               |         |
| alpha-BHC              | µg/L          | NS             | 0.056 U       | 0.057 U       | NS             | 0.05 U         | NS            | 0.054 U |
| beta-BHC               | µg/L          | NS             | 0.056 U       | 0.057 U       | NS             | 0.05 U         | NS            | 0.054 U |
| delta-BHC              | µg/L          | NS             | 0.056 U       | 0.057 U       | NS             | 0.05 U         | NS            | 0.054 U |
| gamma-BHC (Lindane)    | µg/L          | NS             | 0.056 U       | 0.057 U       | NS             | 0.05 U         | NS            | 0.054 U |
| Heptachlor             | µg/L          | NS             | 0.056 U       | 0.057 U       | NS             | 0.05 U         | NS            | 0.054 U |
| Aldrin                 | µg/L          | NS             | 0.056 U       | 0.057 U       | NS             | 0.05 U         | NS            | 0.054 U |
| Heptachlor epoxide     | µg/L          | NS             | 0.056 U       | 0.057 U       | NS             | 0.05 U         | NS            | 0.054 U |
| Endosulfan I           | µg/L          | NS             | 0.056 U       | 0.057 U       | NS             | 0.05 U         | NS            | 0.054 U |
| Dieldrin               | µg/L          | NS             | 0.11 U        | 0.11 U        | NS             | 0.1 U          | NS            | 0.11 U  |
| 4,4'-DDE               | µg/L          | NS             | 0.11 U        | 0.11 U        | NS             | 0.1 U          | NS            | 0.11 U  |
| Endrin                 | µg/L          | NS             | 0.11 U        | 0.11 U        | NS             | 0.1 U          | NS            | 0.11 U  |
| Endosulfan II          | µg/L          | NS             | 0.11 U        | 0.11 U        | NS             | 0.1 U          | NS            | 0.11 U  |
| 4,4'-DDD               | µg/L          | NS             | 0.11 U        | 0.11 U        | NS             | 0.1 U          | NS            | 0.11 U  |
| Endosulfan sulfate     | µg/L          | NS             | 0.11 U        | 0.11 U        | NS             | 0.1 U          | NS            | 0.11 U  |
| 4,4'-DDT               | µg/L          | NS             | 0.11 U        | 0.11 U        | NS             | 0.1 U          | NS            | 0.11 U  |
| Methoxychlor           | µg/L          | NS             | 0.56 U        | 0.57 U        | NS             | 0.8 U          | NS            | 0.54 U  |
| Endrin ketone          | µg/L          | NS             | 0.11 U        | 0.11 U        | NS             | 0.1 U          | NS            | 0.11 U  |
| Endrin aldehyde        | µg/L          | NS             | 0.11 U        | NS            | NS             | 0.1 U          | NS            | NS      |
| alpha-Chlordane        | µg/L          | NS             | 0.056 U       | 0.57 U        | NS             | 0.05 U         | NS            | 0.54 U  |
| gamma-Chlordane        | µg/L          | NS             | 0.056 U       | 0.57 U        | NS             | 0.05 U         | NS            | 0.54 U  |
| Toxaphene              | µg/L          | NS             | 5.6 U         | 1.1 U         | NS             | 5 U            | NS            | 1.1 U   |
| Aroclor-1016           | µg/L          | NS             | 1.1 U         | 0.57 U        | NS             | 1 U            | NS            | 0.54 U  |
| Aroclor-1221           | µg/L          | NS             | 2.2 U         | 0.57 U        | NS             | 2 U            | NS            | 0.54 U  |
| Aroclor-1232           | µg/L          | NS             | 1.1 U         | 0.57 U        | NS             | 1 U            | NS            | 0.54 U  |
| Aroclor-1242           | µg/L          | NS             | 1.1 U         | 0.57 U        | NS             | 1 U            | NS            | 0.54 U  |
| Aroclor-1248           | µg/L          | NS             | 1.1 U         | 0.57 U        | NS             | 1 U            | NS            | 0.54 U  |
| Aroclor-1254           | µg/L          | NS             | 1.1 U         | 1.1 U         | NS             | 1 U            | NS            | 1.1 U   |
| Aroclor-1260           | µg/L          | NS             | 1.1 U         | 1.1 U         | NS             | 1 U            | NS            | 1.1 U   |
| <b>HERBICIDES</b>      |               |                |               |               |                |                |               |         |
| 2,4-D                  | µg/L          | NS             | 1 U           | 1 U           | NS             | 1 U            | NS            | 1 U     |
| 2,4-DB                 | µg/L          | NS             | 1 U           | 1 U           | NS             | 1 U            | NS            | 1 U     |
| 2,4,5-T                | µg/L          | NS             | 0.1 U         | 0.1 U         | NS             | 0.1 U          | NS            | 0.1 U   |
| 2,4,5-TP (Silvex)      | µg/L          | NS             | 0.1 U         | 0.1 U         | NS             | 0.1 U          | NS            | 0.1 U   |
| Dalapon                | µg/L          | NS             | 2.3 U         | 2.4 U         | NS             | 2.3 U          | NS            | 2.4 U   |
| Dicamba                | µg/L          | NS             | 0.1 U         | 0.1 U         | NS             | 0.1 U          | NS            | 0.1 U   |
| Dichloroprop           | µg/L          | NS             | 1 U           | 1 U           | NS             | 1 U            | NS            | 1 U     |
| Dinoseb                | µg/L          | NS             | 0.5 U         | 0.5 U         | NS             | 0.5 U          | NS            | 0.5 U   |
| MCPA                   | µg/L          | NS             | 100 U         | 100 U         | NS             | 100 U          | NS            | 100 U   |
| MCPP                   | µg/L          | NS             | 100 U         | 100 U         | NS             | 100 U          | NS            | 100 U   |
| <b>METALS</b>          |               |                |               |               |                |                |               |         |
| Aluminum               | µg/L          | 24.4 U         | 209           | 16600         | 24.4 U         | 180 J          | NS            | 24000   |
| Antimony               | µg/L          | 83 U           | 49.8 UJ       | 53.1 U        | 83 U           | 49.7 UJ        | NS            | 52.9 U  |
| Arsenic                | µg/L          | 3.6 U          | 1.4 UJ        | 3.6 U         | 3.6 U          | 1.4 UJ         | NS            | 3.6 U   |
| Barium                 | µg/L          | 34 R           | 46.9 J        | 132 J         | 46.7 R         | 46.4 J         | NS            | 135 J   |
| Beryllium              | µg/L          | 1.4 R          | 0.3 U         | 2.7 R         | 1.3 R          | 0.69 U         | NS            | 3 R     |
| Cadmium                | µg/L          | 3 U            | 2.8 U         | 3 U           | 3 U            | 2.8 U          | NS            | 3.2 J   |
| Calcium                | µg/L          | 85200          | 118000        | 135000        | 106000         | 117000         | NS            | 75300   |
| Chromium               | µg/L          | 6.2 U          | 2.7 UJ        | 27.1          | 6.2 U          | 2.7 UJ         | NS            | 32.2    |
| Cobalt                 | µg/L          | 20.4 U         | 5.5 U         | 20.4 U        | 20.4 U         | 5.5 U          | NS            | 20.3 U  |
| Copper                 | µg/L          | 10.1 U         | 4.7 U         | 11.1 J        | 10.1 U         | 4.7 U          | NS            | 22.5 J  |
| Iron                   | µg/L          | 7 U            | 283           | 26000         | 7 U            | 181            | NS            | 39000   |
| Lead                   | µg/L          | 1.2 U          | 0.79 U        | 8             | 1.2 U          | 0.59 U         | NS            | 6.8     |
| Magnesium              | µg/L          | 9510           | 13000         | 19100         | 12200          | 13200          | NS            | 16900   |
| Manganese              | µg/L          | 4.8 U          | 39.2          | 423           | 4.8 U          | 36.4           | NS            | 595     |
| Mercury                | µg/L          | 0.06 R         | 0.09 UJ       | 0.12 R        | 0.1 R          | 0.09 UJ        | NS            | 0.11 R  |
| Nickel                 | µg/L          | 14.7 U         | 7.8 UJ        | 25.1 J        | 14.7 U         | 7.5 UJ         | NS            | 40.6    |
| Potassium              | µg/L          | 904 B          | 1440 J        | 4530 J        | 600 J          | 817 J          | NS            | 4620 J  |
| Selenium               | µg/L          | 1 U            | 0.99 UJ       | 1.3 U         | 1.7 J          | 1.5 UJ         | NS            | 1.3 U   |
| Silver                 | µg/L          | 3.4 U          | 5.6 U         | 3.4 U         | 4.1 R          | 5.5 U          | NS            | 3.4 U   |
| Sodium                 | µg/L          | 4940 J         | 4620 J        | 14900         | 13600          | 15400          | NS            | 15900   |
| Thallium               | µg/L          | 3.2 U          | 2.6 U         | 3.2 U         | 3.2 U          | 2.6 U          | NS            | 3.2 U   |
| Vanadium               | µg/L          | 9.4 U          | 6.8 UJ        | 25.5 J        | 9.4 U          | 6.8 UJ         | NS            | 31.4 J  |
| Zinc                   | µg/L          | 14.7 J         | 11.6 R        | 92.9 R        | 6.4 U          | 6.7 R          | NS            | 11.9    |
| Cyanide                | µg/L          | NS             | 10 UJ         | 10 U          | NS             | 3 UJ           | NS            | 10 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER |
|----------------------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|
| DATE                       | PT-26         | PT-26          | PT-26         | PT-26         | PT-26          | PT-26         | PT-26         |
| ES ID                      | PT-26Filtered | PT-26          | PT-26         | PT-26Filtered | PT-26          | PT-26         | PT-26         |
| LAB ID                     | 152664        | 187936         | 152708        | 152714        | 188262         | 152641        | 162570        |
| COMPOUND                   | UNITS         |                |               |               |                |               |               |
| Chloromethane              | µg/L          | NS             | NS            | 10 U          | NS             | NS            | NS            |
| Bromomethane               | µg/L          | NS             | NS            | 10 U          | NS             | NS            | NS            |
| Vinyl Chloride             | µg/L          | NS             | NS            | 10 U          | NS             | NS            | NS            |
| Chloroethane               | µg/L          | NS             | NS            | 10 U          | NS             | NS            | NS            |
| Methylene Chloride         | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Acetone                    | µg/L          | NS             | NS            | 10 U          | NS             | NS            | NS            |
| Carbon Disulfide           | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| 1,1-Dichloroethene         | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| 1,1-Dichloroethane         | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| 1,2-Dichloroethene (total) | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Chloroform                 | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| 1,2-Dichloroethane         | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| 2-Butanone                 | µg/L          | NS             | NS            | 10 U          | NS             | NS            | NS            |
| 1,1,1-Trichloroethane      | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Carbon Tetrachloride       | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Vinyl Acetate              | µg/L          | NS             | NS            | 10 U          | NS             | NS            | NS            |
| Bromodichloromethane       | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| 1,2-Dichloropropane        | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| cis-1,3-Dichloropropene    | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Trichloroethene            | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Dibromochloromethane       | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| 1,1,2-Trichloroethane      | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Benzene                    | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| trans-1,3-Dichloropropene  | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Bromoform                  | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| 4-Methyl-2-Pentanone       | µg/L          | NS             | NS            | 10 U          | NS             | NS            | NS            |
| 2-Hexanone                 | µg/L          | NS             | NS            | 10 U          | NS             | NS            | NS            |
| Tetrachloroethene          | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| 1,1,2,2-Tetrachloroethane  | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Toluene                    | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Chlorobenzene              | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Ethylbenzene               | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Styrene                    | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |
| Xylene (total)             | µg/L          | NS             | NS            | 5 U           | NS             | NS            | NS            |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | PHASE I WATER PT-25 01/15/92 PT-25 Filtered 162694 | PHASE II WATER PT-25 06/30/93 PT-25 167936 | PHASE I WATER PT-25 01/17/92 PT-25 182706 | PHASE I WATER PT-25 01/17/92 PT-25 Filtered 182714 | PHASE II WATER PT26 07/03/93 PT26 166262 | PHASE I WATER MW-27 01/15/92 MW-27 162641 | PHASE I WATER MW-27 01/15/92 MW-27 162670 |
|-----------------------------------|--|--|---|--|--|---|---|
| COMPOUND UNITS                    |  |  |   |  |  |   |   |
| VOC's (24/2)                      |  |  |   |  |  |   |   |
| Dichlorodifluoromethane           | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Chloromethane                     | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Vinyl Chloride                    | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Bromomethane                      | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Chloroethane                      | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Trichlorofluoromethane            | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,1-Dichloroethene                | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Acetone                           | µg/L   | NS   | 6 U                                       | NS   | NS                                       | 6 U                                       | NS  |
| Carbon Disulfide                  | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Methylene Chloride                | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| trans-1,2-Dichloroethene          | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,1-Dichloroethane                | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 2,2-Dichloropropane               | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| cis-1,2-Dichloroethene            | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 2-Butanone                        | µg/L   | NS   | 6 U                                       | NS   | NS                                       | 6 U                                       | NS  |
| Bromochloromethane                | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Chloroform                        | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,1,1-Trichloroethane             | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Carbon Tetrachloride              | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,1-Dichloropropene               | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Benzene                           | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,2-Dichloroethane                | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Trichloroethene                   | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,2-Dichloropropane               | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Dibromomethane                    | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Bromodichloromethane              | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| cis-1,3-Dichloropropene           | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 4-Methyl-2-Pentanone              | µg/L   | NS   | 6 U                                       | NS   | NS                                       | 6 U                                       | NS  |
| Toluene                           | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| trans-1,3-Dichloropropene         | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,1,2-Trichloroethane             | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Tetrachloroethene                 | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,3-Dichloropropane               | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 2-Hexanone                        | µg/L   | NS   | 6 U                                       | NS   | NS                                       | 6 U                                       | NS  |
| Dibromochloromethane              | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,2-Dibromoethane                 | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Chlorobenzene                     | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,1,1,2-Tetrachloroethane         | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Ethylbenzene                      | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Styrene                           | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Bromoform                         | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Isopropylbenzene                  | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Bromobenzene                      | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,1,2,2-Tetrachloroethane         | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,2,3-Trichloropropane            | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| n-Propylbenzene                   | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 2-Chlorotoluene                   | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 4-Chlorotoluene                   | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,3,6-Trimethylbenzene            | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| tert-Butylbenzene                 | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| sec-Butylbenzene                  | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,3-Dichlorobenzene               | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,4-Dichlorobenzene               | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| p-Isopropyltoluene                | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,2-Dichlorobenzene               | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| n-Butylbenzene                    | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,2-Dibromo-3-Chloropropane       | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,2,4-Trichlorobenzene            | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Hexachlorobutadiene               | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Naphthalene                       | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| 1,2,3-Trichlorobenzene            | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |
| Xylene (total)                    | µg/L   | NS   | 0.6 U                                     | NS   | NS                                       | 0.6 U                                     | NS  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX LOCATION DATE EB ID LAB ID UNITS | PHASE I                     | PHASE II                    | PHASE I                     | PHASE I                     | PHASE II                    | PHASE I                     | PHASE I                     |
|------------------------------|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|                              |   | WATER PT-25 01/16/92 162594 | WATER PT-25 06/30/93 167936 | WATER PT-26 01/17/92 162706 | WATER PT-26 01/17/92 162714 | WATER PT-26 07/03/93 166262 | WATER MW-27 01/16/92 162641 | WATER MW-27 01/16/92 162670 |
| SEMIVOLATILES                |   |                             |                             |                             |                             |                             |                             |                             |
| Phenol                       | µg/L                                    | NS                          | 10                          | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| bis(2-Chloroethyl) ether     | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2-Chlorophenol               | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 1,3-Dichlorobenzene          | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 1,4-Dichlorobenzene          | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Benzyl Alcohol               | µg/L                                    | NS                          | NS                          | 11 U                        | NS                          | NS                          | NS                          | 12 U                        |
| 1,2-Dichlorobenzene          | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2-Methylphenol               | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| bis(2-Chloroisopropyl) ether | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 4-Methylphenol               | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| N-Nitroso-di-n-propylamine   | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Hexachloroethane             | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Nitrobenzene                 | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Isophorone                   | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2-Nitrophenol                | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2,4-Dimethylphenol           | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Benzoic acid                 | µg/L                                    | NS                          | NS                          | 65 U                        | NS                          | NS                          | NS                          | 61 U                        |
| bis(2-Chloroethoxy) methane  | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2,4-Dichlorophenol           | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 1,2,4-Trichlorobenzene       | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Naphthalene                  | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 4-Chloroaniline              | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Hexachlorobutadiene          | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 4-Chloro-3-methylphenol      | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2-Methylnaphthalene          | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Hexachlorocyclopentadiene    | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2,4,6-Trichlorophenol        | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2,4,5-Trichlorophenol        | µg/L                                    | NS                          | 25 U                        | 65 U                        | NS                          | 25 U                        | NS                          | 61 U                        |
| 2-Chloronaphthalene          | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2-Nitroaniline               | µg/L                                    | NS                          | 25 U                        | 65 U                        | NS                          | 25 U                        | NS                          | 61 U                        |
| Dimethylphthalate            | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Acenaphthylene               | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2,6-Dinitrotoluene           | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 3-Nitroaniline               | µg/L                                    | NS                          | 25 U                        | 65 U                        | NS                          | 25 U                        | NS                          | 61 U                        |
| Acenaphthene                 | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2,4-Dinitrophenol            | µg/L                                    | NS                          | 25 U                        | 65 U                        | NS                          | 25 U                        | NS                          | 61 U                        |
| 4-Nitrophenol                | µg/L                                    | NS                          | 25 U                        | 65 U                        | NS                          | 25 U                        | NS                          | 61 U                        |
| Dibenzofuran                 | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 2,4-Dinitrotoluene           | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Diethylphthalate             | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 4-Chlorophenyl-phenylether   | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Fluorene                     | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 4-Nitroaniline               | µg/L                                    | NS                          | 25 U                        | 65 U                        | NS                          | 25 U                        | NS                          | 61 U                        |
| 4,6-Dinitro-2-methylphenol   | µg/L                                    | NS                          | 25 U                        | 65 U                        | NS                          | 25 U                        | NS                          | 61 U                        |
| N-Nitrosodiphenylamine (1)   | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 4-Bromophenyl-phenylether    | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Hexachlorobenzene            | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Pentachlorophenol            | µg/L                                    | NS                          | 25 U                        | 65 U                        | NS                          | 25 U                        | NS                          | 61 U                        |
| Phenanthrene                 | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Anthracene                   | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Carbazole                    | µg/L                                    | NS                          | 10 U                        | NS                          | NS                          | 10 U                        | NS                          | NS                          |
| Di-n-butylphthalate          | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Fluoranthene                 | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Pyrene                       | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Butylbenzylphthalate         | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| 3,3'-Dichlorobenzidine       | µg/L                                    | NS                          | 10 U                        | 22 U                        | NS                          | 10 U                        | NS                          | 26 U                        |
| Benzo(a)anthracene           | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Chrysene                     | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| bb(2-Ethylhexyl)phthalate    | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Di-n-octylphthalate          | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Benzo(b)fluoranthene         | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Benzo(k)fluoranthene         | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Benzo(a)pyrene               | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Indeno(1,2,3-cd)pyrene       | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Dibenz(a,h)anthracene        | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |
| Benzo(g,h,i)perylene         | µg/L                                    | NS                          | 10 U                        | 11 U                        | NS                          | 10 U                        | NS                          | 12 U                        |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | MATRIX LOCATION DATE ES ID LAB ID UNITS | PHASE I WATER PT-25 01/15/92 182544 | PHASE II WATER PT-25 08/30/93 167936 | PHASE I WATER PT-26 01/17/92 182706 | PHASE I WATER PT-26 01/17/92 152714 | PHASE II WATER PT26 07/03/93 188262 | PHASE I WATER MW-27 01/15/92 152641 | PHASE I WATER MW-27 01/15/92 152670 |
|------------------------|---|-------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <b>PESTICIDES/PCBS</b> |   |                                     |                                      |                                     |                                     |                                     |                                     |                                     |
| alpha-BHC              | µg/L                                    | NS                                  | 0.05 U                               | 0.059 U                             | NS                                  | 0.05 U                              | NS                                  | 0.055 U                             |
| beta-BHC               | µg/L                                    | NS                                  | 0.05 U                               | 0.059 U                             | NS                                  | 0.05 U                              | NS                                  | 0.055 U                             |
| delta-BHC              | µg/L                                    | NS                                  | 0.05 U                               | 0.059 U                             | NS                                  | 0.05 U                              | NS                                  | 0.055 U                             |
| gamma-BHC (Lindane)    | µg/L                                    | NS                                  | 0.05 U                               | 0.059 U                             | NS                                  | 0.05 U                              | NS                                  | 0.055 U                             |
| Heptachlor             | µg/L                                    | NS                                  | 0.05 U                               | 0.059 U                             | NS                                  | 0.05 U                              | NS                                  | 0.055 U                             |
| Aldrin                 | µg/L                                    | NS                                  | 0.05 U                               | 0.059 U                             | NS                                  | 0.05 U                              | NS                                  | 0.055 U                             |
| Heptachlor epoxide     | µg/L                                    | NS                                  | 0.05 U                               | 0.059 U                             | NS                                  | 0.05 U                              | NS                                  | 0.055 U                             |
| Endosulfan I           | µg/L                                    | NS                                  | 0.05 U                               | 0.059 U                             | NS                                  | 0.05 U                              | NS                                  | 0.055 U                             |
| Dieldrin               | µg/L                                    | NS                                  | 0.1 U                                | 0.12 U                              | NS                                  | 0.1 U                               | NS                                  | 0.11 U                              |
| 4,4'-DDE               | µg/L                                    | NS                                  | 0.1 U                                | 0.12 U                              | NS                                  | 0.1 U                               | NS                                  | 0.11 U                              |
| Endrin                 | µg/L                                    | NS                                  | 0.1 U                                | 0.12 U                              | NS                                  | 0.1 U                               | NS                                  | 0.11 U                              |
| Endosulfan II          | µg/L                                    | NS                                  | 0.1 U                                | 0.12 U                              | NS                                  | 0.1 U                               | NS                                  | 0.11 U                              |
| 4,4'-DDD               | µg/L                                    | NS                                  | 0.1 U                                | 0.12 U                              | NS                                  | 0.1 U                               | NS                                  | 0.11 U                              |
| Endosulfan sulfate     | µg/L                                    | NS                                  | 0.1 U                                | 0.12 U                              | NS                                  | 0.1 U                               | NS                                  | 0.11 U                              |
| 4,4'-DDT               | µg/L                                    | NS                                  | 0.1 U                                | 0.12 U                              | NS                                  | 0.1 U                               | NS                                  | 0.11 U                              |
| Methoxychlor           | µg/L                                    | NS                                  | 0.5 U                                | 0.59 U                              | NS                                  | 0.5 U                               | NS                                  | 0.55 U                              |
| Endrin ketone          | µg/L                                    | NS                                  | 0.1 U                                | 0.12 U                              | NS                                  | 0.1 U                               | NS                                  | 0.11 U                              |
| Endrin aldehyde        | µg/L                                    | NS                                  | 0.1 U                                | NS                                  | NS                                  | 0.1 U                               | NS                                  | NS                                  |
| alpha-Chlordane        | µg/L                                    | NS                                  | 0.05 U                               | 0.59 U                              | NS                                  | 0.05 U                              | NS                                  | 0.55 U                              |
| gamma-Chlordane        | µg/L                                    | NS                                  | 0.05 U                               | 0.59 U                              | NS                                  | 0.05 U                              | NS                                  | 0.55 U                              |
| Toxaphene              | µg/L                                    | NS                                  | 5 U                                  | 1.2 U                               | NS                                  | 5 U                                 | NS                                  | 1.1 U                               |
| Aroclor-1016           | µg/L                                    | NS                                  | 1 U                                  | 0.59 U                              | NS                                  | 1 U                                 | NS                                  | 0.55 U                              |
| Aroclor-1221           | µg/L                                    | NS                                  | 2 U                                  | 0.59 U                              | NS                                  | 2 U                                 | NS                                  | 0.55 U                              |
| Aroclor-1232           | µg/L                                    | NS                                  | 1 U                                  | 0.59 U                              | NS                                  | 1 U                                 | NS                                  | 0.55 U                              |
| Aroclor-1242           | µg/L                                    | NS                                  | 1 U                                  | 0.59 U                              | NS                                  | 1 U                                 | NS                                  | 0.55 U                              |
| Aroclor-1248           | µg/L                                    | NS                                  | 1 U                                  | 0.59 U                              | NS                                  | 1 U                                 | NS                                  | 0.55 U                              |
| Aroclor-1254           | µg/L                                    | NS                                  | 1 U                                  | 1.2 U                               | NS                                  | 1 U                                 | NS                                  | 1.1 U                               |
| Aroclor-1260           | µg/L                                    | NS                                  | 1 U                                  | 1.2 U                               | NS                                  | 1 U                                 | NS                                  | 1.1 U                               |
| <b>HERBICIDES</b>      |   |                                     |                                      |                                     |                                     |                                     |                                     |                                     |
| 2,4-D                  | µg/L                                    | NS                                  | 1 U                                  | 1.1 U                               | NS                                  | 1 U                                 | NS                                  | 1 U                                 |
| 2,4-DB                 | µg/L                                    | NS                                  | 1 U                                  | 1.1 U                               | NS                                  | 1 U                                 | NS                                  | 1 U                                 |
| 2,4,5-T                | µg/L                                    | NS                                  | 0.1 U                                | 0.1 U                               | NS                                  | 0.1 U                               | NS                                  | 0.1 U                               |
| 2,4,5-TP (Silvex)      | µg/L                                    | NS                                  | 0.1 U                                | 0.1 U                               | NS                                  | 0.1 U                               | NS                                  | 0.1 U                               |
| Dalapon                | µg/L                                    | NS                                  | 2.3 U                                | 2.4 U                               | NS                                  | 2.3 U                               | NS                                  | 2.4 U                               |
| Dicamba                | µg/L                                    | NS                                  | 0.1 U                                | 0.1 U                               | NS                                  | 0.1 U                               | NS                                  | 0.1 U                               |
| Dichloroprop           | µg/L                                    | NS                                  | 1 U                                  | 1.1 U                               | NS                                  | 1 U                                 | NS                                  | 1 U                                 |
| Dinoseb                | µg/L                                    | NS                                  | 0.5 U                                | 0.5 U                               | NS                                  | 0.5 U                               | NS                                  | 0.5 U                               |
| MCPA                   | µg/L                                    | NS                                  | 100 U                                | 110 U                               | NS                                  | 100 U                               | NS                                  | 100 U                               |
| MCPP                   | µg/L                                    | NS                                  | 100 U                                | 110 U                               | NS                                  | 100 U                               | NS                                  | 100 U                               |
| <b>METALS</b>          |   |                                     |                                      |                                     |                                     |                                     |                                     |                                     |
| Aluminum               | µg/L                                    | 24.5 U                              | 318                                  | 308000                              | 24.5 U                              | 43800                               | 8590                                | NS                                  |
| Arsimony               | µg/L                                    | 53.3 U                              | 48.7 UJ                              | 53.8 R                              | 53.1 U                              | 56.9 J                              | 53.4 U                              | NS                                  |
| Arsenic                | µg/L                                    | 3.5 U                               | 1.4 UJ                               | 3.5 U                               | 3.5 U                               | 2.4 J                               | 3.8 U                               | NS                                  |
| Barium                 | µg/L                                    | 50.9 R                              | 40.9 J                               | 1600                                | 97.8 R                              | 378                                 | 90.8 J                              | NS                                  |
| Beryllium              | µg/L                                    | 1.1 U                               | 0.89 U                               | 12.2 R                              | 1.1 U                               | 2.5 J                               | 2.4 R                               | NS                                  |
| Cadmium                | µg/L                                    | 3 U                                 | 2.8 U                                | 64.6 J                              | 3 U                                 | 2.8 U                               | 3 U                                 | NS                                  |
| Calcium                | µg/L                                    | 72100                               | 101000                               | 1790000                             | 93700                               | 395000                              | 102000                              | NS                                  |
| Chromium               | µg/L                                    | 8.2 U                               | 2.7 UJ                               | 418                                 | 8.2 U                               | 89.7 J                              | 10.4                                | NS                                  |
| Cobalt                 | µg/L                                    | 20.4 U                              | 8.5 U                                | 196                                 | 20.4 U                              | 33.4 J                              | 20.5 U                              | NS                                  |
| Copper                 | µg/L                                    | 10.2 U                              | 4.7 U                                | 412                                 | 10.1 U                              | 82.2                                | 10.2 U                              | NS                                  |
| Iron                   | µg/L                                    | 7 U                                 | 260                                  | 610000                              | 7 U                                 | 78400                               | 10500                               | NS                                  |
| Lead                   | µg/L                                    | 1.2 U                               | 0.8 U                                | 103                                 | 1.2 U                               | 17.3                                | 3.2                                 | NS                                  |
| Magnesium              | µg/L                                    | 8220                                | 10700                                | 287000 J                            | 37800                               | 74900                               | 13800                               | NS                                  |
| Manganese              | µg/L                                    | 4.8 U                               | 25                                   | 11400                               | 4.8 U                               | 1780                                | 365                                 | NS                                  |
| Mercury                | µg/L                                    | 0.03 U                              | 0.09 UJ                              | 0.05 R                              | 0.03 U                              | 0.09 UJ                             | 0.11 R                              | NS                                  |
| Nickel                 | µg/L                                    | 14.8 U                              | 7.8 UJ                               | 822                                 | 14.7 U                              | 106 J                               | 14.8 U                              | NS                                  |
| Potassium              | µg/L                                    | 289 U                               | 1210 J                               | 23200                               | 1080 J                              | 9540                                | 4160 J                              | NS                                  |
| Selenium               | µg/L                                    | 1 U                                 | 1 UJ                                 | 8 U J                               | 1.4 J                               | 1.8 UJ                              | 1.3 U                               | NS                                  |
| Silver                 | µg/L                                    | 3.4 U                               | 5.5 U                                | 5.8 R                               | 3.4 U                               | 5.8 U                               | 3.4 U                               | NS                                  |
| Sodium                 | µg/L                                    | 16000                               | 21600                                | 40800                               | 38900                               | 31600                               | 25300                               | NS                                  |
| Thallium               | µg/L                                    | 3.2 U                               | 2.6 U                                | 32 U                                | 3.2 U                               | 2.8 U                               | 3.2 U                               | NS                                  |
| Vanadium               | µg/L                                    | 8.8 U                               | 6.8 UJ                               | 358                                 | 8.4 U                               | 64.7 J                              | 10 J                                | NS                                  |
| Zinc                   | µg/L                                    | 19 R                                | 8 J                                  | 1750 J                              | 18 R                                | 277                                 | 35.9 R                              | NS                                  |
| Cyanide                | µg/L                                    | NS                                  | 10 UJ                                | 10 U J                              | NS                                  | 10 UJ                               | 10 U                                | NS                                  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE I WATER           | PHASE II WATER | PHASE I WATER   | PHASE I WATER   | PHASE I WATER        | PHASE I WATER           | PHASE I WATER     | PHASE I WATER             |
|----------------------------|-------------------------|----------------|-----------------|-----------------|----------------------|-------------------------|-------------------|---------------------------|
| DATE                       | MW-27                   | MW27           | MW-28           | MW-28           | MW-28                | MW-28                   | MW-28             | MW-28                     |
| ES ID                      | 01/15/92                | 07/01/93       | 01/15/92        | 01/15/92        | 01/15/92             | 01/15/92                | 01/15/92          | 01/15/92                  |
| LAB ID                     | MW-27Filtered<br>152698 | MW27<br>158122 | MW-28<br>152571 | MW-28<br>152571 | MW-28RE(4)<br>152571 | MW-28Filtered<br>152590 | PT-2(1)<br>152573 | PT-2(1)Filtered<br>152592 |
| COMPOUND                   | UNITS                   |                |                 |                 |                      |                         |                   |                           |
| Chloromethane              | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| Bromomethane               | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| Vinyl Chloride             | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| Chloroethane               | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| Methylene Chloride         | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Acetone                    | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| Carbon Disulfide           | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| 1,1-Dichloroethene         | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| 1,1-Dichloroethane         | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| 1,2-Dichloroethene (total) | µg/L                    | NS             | NS              | 60              | NS                   | NS                      | 62                | NS                        |
| Chloroform                 | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| 1,2-Dichloroethane         | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| 2-Butanone                 | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| 1,1,1-Trichloroethane      | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Carbon Tetrachloride       | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Vinyl Acetate              | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| Bromodichloromethane       | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| 1,2-Dichloropropane        | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| cis-1,3-Dichloropropene    | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Trichloroethene            | µg/L                    | NS             | NS              | 32              | NS                   | NS                      | 33                | NS                        |
| Dibromochloromethane       | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| 1,1,2-Trichloroethane      | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Benzene                    | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| trans-1,3-Dichloropropene  | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Bromoform                  | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| 4-Methyl-2-Pentanone       | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| 2-Hexanone                 | µg/L                    | NS             | NS              | 10 U            | NS                   | NS                      | 10 U              | NS                        |
| Tetrachloroethene          | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| 1,1,2,2-Tetrachloroethane  | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Toluene                    | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Chlorobenzene              | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Ethylbenzene               | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Styrene                    | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |
| Xylene (total)             | µg/L                    | NS             | NS              | 5 U             | NS                   | NS                      | 5 U               | NS                        |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRX LOCATION              | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER |
|-----------------------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| DATE                        | MW-27         | MW27           | MW-26         | MW-26         | MW-26         | MW-26         | MW-26         | MW-26         |
| ES ID                       | MW-27Filtered | MW27           | MW-26         | MW-26         | MW-26         | MW-26Filtered | MW-26         | MW-26         |
| LAB ID                      | 152686        | 188122         | 152671        | 152671        | 152671        | 152690        | 152673        | 152692        |
| COMPOUND                    | UNITS         |                |               |               |               |               |               |               |
| VOC's (524.2)               |               |                |               |               |               |               |               |               |
| Dichlorodifluoromethane     | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Chloromethane               | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Vinyl Chloride              | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Bromomethane                | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Chloroethane                | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Trichlorofluoromethane      | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,1-Dichloroethane          | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Acetone                     | µg/L          | NS             | 8 U           | NS            | NS            | NS            | NS            | NS            |
| Carbon Disulfide            | µg/L          | N6             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Methylene Chloride          | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| trans-1,2-Dichloroethane    | µg/L          | N6             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,1-Dichloroethane          | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 2,2-Dichloropropane         | µg/L          | N8             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| cis-1,2-Dichloroethane      | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 2-Butanone                  | µg/L          | NS             | 8 U           | NS            | NS            | NS            | NS            | NS            |
| Bromochloromethane          | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Chloroform                  | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,1,1-Trichloroethane       | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Carbon Tetrachloride        | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,1-Dichloropropene         | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Benzene                     | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dichloroethane          | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Trichloroethene             | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dichloropropane         | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Dibromomethane              | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Bromodichloromethane        | µg/L          | N6             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| cis-1,3-Dichloropropene     | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 4-Methyl-2-Pentanone        | µg/L          | NS             | 8 U           | NS            | NS            | NS            | NS            | NS            |
| Toluene                     | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| trans-1,3-Dichloropropene   | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,1,2-Trichloroethane       | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Tetrachloroethene           | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,3-Dichloropropane         | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 2-Hexanone                  | µg/L          | N8             | 8 U           | NS            | NS            | NS            | NS            | NS            |
| Dibromochloromethane        | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dibromoethane           | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Chlorobenzene               | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,1,1,2-Tetrachloroethane   | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Ethylbenzene                | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Styrene                     | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Bromoform                   | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Isopropylbenzene            | µg/L          | N6             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Bromobenzene                | µg/L          | N8             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,1,2,2-Tetrachloroethane   | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,2,3-Trichloropropane      | µg/L          | N8             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| n-Propylbenzene             | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 2-Chlorotoluene             | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 4-Chlorotoluene             | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,3,5-Trimethylbenzene      | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| tert-Butylbenzene           | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,2,4-Trimethylbenzene      | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| sec-Butylbenzene            | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,3-Dichlorobenzene         | µg/L          | N8             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,4-Dichlorobenzene         | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| p-Isopropyltoluene          | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dichlorobenzene         | µg/L          | N8             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| n-Butylbenzene              | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,2-Dibromo-3-Chloropropane | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Hexachlorobutadiene         | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| Naphthalene                 | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |
| 1,2,3-Trichlorobenzene      | µg/L          | NS             | 0.8 U         | NS            | N6            | NS            | NS            | NS            |
| Xylene (total)              | µg/L          | NS             | 0.8 U         | NS            | NS            | NS            | NS            | NS            |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER   |
|------------------------------|---------------|----------------|---------------|---------------|---------------|---------------|-----------------|
| DATE                         | MW-27         | MW27           | MW-28         | MW-28         | MW-28         | MW-28         | MW-28           |
| ES ID                        | MW-27Filtered | 07/01/93       | 01/15/92      | 01/15/92      | 01/15/92      | 01/15/92      | 01/15/92        |
| LAB ID                       | MW-27Filtered | MW27           | MW-28         | MW-28RE(4)    | MW-28Filtered | PT-2(1)       | PT-2(1)Filtered |
| UNITS                        | 152664        | 186122         | 152671        | 152571        | 152590        | 152673        | 152692          |
| <b>SEMIVOLATILES</b>         |               |                |               |               |               |               |                 |
| Phenol                       | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| bis(2-Chloroethyl) ether     | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2-Chlorophenol               | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 1,3-Dichlorobenzene          | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 1,4-Dichlorobenzene          | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Benzyl Alcohol               | µg/L          | NS             | NS            | 11 U          | NS            | NS            | 11 U            |
| 1,2-Dichlorobenzene          | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2-Methylphenol               | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| bis(2-Chloroisopropyl) ether | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 4-Methylphenol               | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| N-Nitroso-di-n-propylamine   | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Hexachloroethane             | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Nitrobenzene                 | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Isophorone                   | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2-Nitrophenol                | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2,4-Dimethylphenol           | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Benzic acid                  | µg/L          | NS             | NS            | 54 U          | NS            | NS            | 56 U            |
| bis(2-Chloroethoxy) methane  | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2,4-Dichlorophenol           | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 1,2,4-Trichlorobenzene       | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Naphthalene                  | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 4-Chloroaniline              | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Hexachlorobutadiene          | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 4-Chloro-3-methylphenol      | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2-Methylnaphthalene          | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Hexachlorocyclopentadiene    | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2,4,6-Trichlorophenol        | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2,4,6-Trichlorophenol        | µg/L          | NS             | 27 U          | 54 U          | NS            | NS            | 56 U            |
| 2-Chloronaphthalene          | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2-Nitroaniline               | µg/L          | NS             | 27 U          | 54 U          | NS            | NS            | 56 U            |
| Dimethylphthalate            | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Acenaphthylene               | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2,6-Dinitrotoluene           | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 3-Nitroaniline               | µg/L          | NS             | 27 U          | 54 U          | NS            | NS            | 56 U            |
| Acenaphthene                 | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2,4-Dinitrophenol            | µg/L          | NS             | 27 U          | 54 U          | NS            | NS            | 56 U            |
| 4-Nitrophenol                | µg/L          | NS             | 27 U          | 54 U          | NS            | NS            | 56 U            |
| Dibenzofuran                 | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 2,4-Dinitrotoluene           | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Diethylphthalate             | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 4-Chlorophenyl-phenylether   | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Fluorene                     | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 4-Nitroaniline               | µg/L          | NS             | 27 U          | 54 U          | NS            | NS            | 56 U            |
| 4,6-Dinitro-2-methylphenol   | µg/L          | NS             | 27 U          | 54 U          | NS            | NS            | 56 U            |
| N-Nitrosodiphenylamine (1)   | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 4-Bromophenyl-phenylether    | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Hexachlorobenzene            | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Pentachlorophenol            | µg/L          | NS             | 27 U          | 54 U          | NS            | NS            | 56 U            |
| Phenanthrene                 | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Anthracene                   | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Carbazole                    | µg/L          | NS             | 11 U          | NS            | NS            | NS            | NS              |
| Di-n-butylphthalate          | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Fluoranthene                 | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Pyrene                       | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Butylbenzylphthalate         | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| 3,3'-Dichlorobenzidine       | µg/L          | NS             | 11 U          | 22 U          | NS            | NS            | 22 U            |
| Benzo(a)anthracene           | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Chrysene                     | µg/L          | NS             | 27 U          | 11 U          | NS            | NS            | 11 U            |
| bis(2-Ethylhexyl)phthalate   | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Di-n-octylphthalate          | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Benzo(b)fluoranthene         | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Benzo(k)fluoranthene         | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Benzo(a)pyrene               | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Indeno(1,2,3-cd)pyrene       | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Dibenz(a,h)anthracene        | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |
| Benzo(g,h,i)perylene         | µg/L          | NS             | 11 U          | 11 U          | NS            | NS            | 11 U            |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | PHASE I WATER MW-27 01/15/92 MW-27Filtered 152666 | PHASE II WATER MW27 07/01/93 MW27 188122 | PHASE I WATER MW-28 01/15/92 MW-28 152671 | PHASE I WATER MW-28 01/15/92 MW-28RE(4) 152671 | PHASE I WATER MW-28 01/15/92 MW-28Filtered 152690 | PHASE I WATER MW-28 01/15/92 PT-2(1) 152673 | PHASE I WATER MW-28 01/15/92 PT-2(1)Filtered 152692 |
|-----------------------------------|---|--|---|--|---|---|---|
| COMPOUND                          | UNITS   |  |   |  |   |   |   |
| <b>PESTICIDES/PCBS</b>            |   |  |   |  |   |   |   |
| alpha-BHC                         | µg/L  | NS                                       | 0.05 U                                    | 0.055 U  | 0.051 U   | NS  | 0.054 U   |
| beta-BHC                          | µg/L  | NS                                       | 0.05 U                                    | 0.055 U  | 0.051 U   | NS  | 0.054 U   |
| delta-BHC                         | µg/L  | NS                                       | 0.05 U                                    | 0.055 U  | 0.051 U   | NS  | 0.054 U   |
| gamma-BHC (Lindane)               | µg/L  | NS                                       | 0.05 U                                    | 0.055 U  | 0.051 U   | NS  | 0.054 U   |
| Heptachlor                        | µg/L  | NS                                       | 0.05 U                                    | 0.055 U  | 0.051 U   | NS  | 0.054 U   |
| Aldrin                            | µg/L  | NS                                       | 0.05 U                                    | 0.055 U  | 0.051 U   | NS  | 0.054 U   |
| Heptachlor epoxide                | µg/L  | NS                                       | 0.05 U                                    | 0.055 U  | 0.051 U   | NS  | 0.054 U   |
| Endosulfan I                      | µg/L  | NS                                       | 0.05 U                                    | 0.055 U  | 0.051 U   | NS  | 0.054 U   |
| Dieldrin                          | µg/L  | NS                                       | 0.1 U                                     | 0.11 U   | 0.1 U   | NS  | 0.11 U  |
| 4,4'-DDE                          | µg/L  | NS                                       | 0.1 U                                     | 0.11 U   | 0.1 U   | NS  | 0.11 U  |
| Endrin                            | µg/L  | NS                                       | 0.1 U                                     | 0.11 U   | 0.1 U   | NS  | 0.11 U  |
| Endosulfan II                     | µg/L  | NS                                       | 0.1 U                                     | 0.11 U   | 0.1 U   | NS  | 0.11 U  |
| 4,4'-DDD                          | µg/L  | NS                                       | 0.1 U                                     | 0.11 U   | 0.1 U   | NS  | 0.11 U  |
| Endosulfan sulfate                | µg/L  | NS                                       | 0.1 U                                     | 0.11 U   | 0.1 U   | NS  | 0.11 U  |
| 4,4'-DDT                          | µg/L  | NS                                       | 0.1 U                                     | 0.11 U   | 0.1 U   | NS  | 0.11 U  |
| Methoxychlor                      | µg/L  | NS                                       | 0.5 U                                     | 0.55 U   | 0.51 U  | NS  | 0.54 U  |
| Endrin ketone                     | µg/L  | NS                                       | 0.1 U                                     | 0.11 U   | 0.1 U   | NS  | 0.11 U  |
| Endrin aldehyde                   | µg/L  | NS                                       | 0.1 U                                     | NS   | NS  | NS  | NS  |
| alpha-Chlordane                   | µg/L  | NS                                       | 0.05 U                                    | 0.05 U   | 0.051 U   | NS  | 0.054 U   |
| gamma-Chlordane                   | µg/L  | NS                                       | 0.05 U                                    | 0.05 U   | 0.051 U   | NS  | 0.054 U   |
| Toxaphene                         | µg/L  | NS                                       | 1 U                                       | 1.1 U  | 1 U   | NS  | 1.1 U   |
| Aroclor-1016                      | µg/L  | NS                                       | 1 U                                       | 0.85 U   | 0.81 U  | NS  | 0.84 U  |
| Aroclor-1221                      | µg/L  | NS                                       | 2 U                                       | 0.85 U   | 0.81 U  | NS  | 0.84 U  |
| Aroclor-1232                      | µg/L  | NS                                       | 1 U                                       | 0.85 U   | 0.81 U  | NS  | 0.84 U  |
| Aroclor-1242                      | µg/L  | NS                                       | 1 U                                       | 0.85 U   | 0.81 U  | NS  | 0.84 U  |
| Aroclor-1248                      | µg/L  | NS                                       | 1 U                                       | 0.85 U   | 0.81 U  | NS  | 0.84 U  |
| Aroclor-1254                      | µg/L  | NS                                       | 1 U                                       | 1.1 U  | 1 U   | NS  | 1.1 U   |
| Aroclor-1260                      | µg/L  | NS                                       | 1 U                                       | 3.6 R  | 1 U   | NS  | 1.1 U   |
| <b>HERBICIDES</b>                 |   |  |   |  |   |   |   |
| 2,4-D                             | µg/L  | NS                                       | 1 U                                       | 1 U  | NS  | NS  | 1.1 U   |
| 2,4-DB                            | µg/L  | NS                                       | 1 U                                       | 1 U  | NS  | NS  | 1.1 U   |
| 2,4,5-T                           | µg/L  | NS                                       | 0.1 U                                     | 0.1 U  | NS  | NS  | 0.1 U   |
| 2,4,5-TP (Silvex)                 | µg/L  | NS                                       | 0.1 U                                     | 0.1 U  | NS  | NS  | 0.1 U   |
| Dalapon                           | µg/L  | NS                                       | 2.3 U                                     | 2.3 U  | NS  | NS  | 2.5 U   |
| Dicamba                           | µg/L  | NS                                       | 0.1 U                                     | 0.1 U  | NS  | NS  | 0.1 U   |
| Dichloroprop                      | µg/L  | NS                                       | 1 U                                       | 1 U  | NS  | NS  | 1.1 U   |
| Dinoseb                           | µg/L  | NS                                       | 0.5 U                                     | 0.5 U  | NS  | NS  | 0.5 U   |
| MCPA                              | µg/L  | NS                                       | 100 U                                     | 100 U  | NS  | NS  | 110 U   |
| MCPP                              | µg/L  | NS                                       | 100 U                                     | 100 U  | NS  | NS  | 110 U   |
| <b>METALS</b>                     |   |  |   |  |   |   |   |
| Aluminum                          | µg/L  | 24.4 U                                   | 3670                                      | 41100 J  | NS  | 24.8 U                                      | 27000 J   |
| Antimony                          | µg/L  | 52.8 U                                   | 49.6 UJ                                   | 54.3 R   | NS  | 53.3 U                                      | 53 U  |
| Arsenic                           | µg/L  | 3.5 U                                    | 1.4 UJ                                    | 4.4 J  | NS  | 3.5 U                                       | 3.5 U   |
| Barium                            | µg/L  | 59.9 R                                   | 106 J                                     | 200  | NS  | 41.1 R                                      | 154 J   |
| Beryllium                         | µg/L  | 1.1 U                                    | 0.89 U                                    | 3.7 R  | NS  | 1.4 R                                       | 3.2 R   |
| Cadmium                           | µg/L  | 3 U                                      | 2.8 U                                     | 8.1  | NS  | 3 U   | 5.2   |
| Calcium                           | µg/L  | 85300                                    | 137000                                    | 170000 J                                       | NS  | 111000                                      | 152000 J  |
| Chromium                          | µg/L  | 8.1 U                                    | 6.9 J                                     | 53.1 J   | NS  | 6.2 U                                       | 34.8 J  |
| Cobalt                            | µg/L  | 20.8 U                                   | 8.5 U                                     | 20.8 U   | NS  | 20.5 U                                      | 20.5 U  |
| Copper                            | µg/L  | 10.1 U                                   | 4.7 U                                     | 33.8   | NS  | 10.2 U                                      | 27.6  |
| Iron                              | µg/L  | 8.9 U                                    | 6530                                      | 60300 J  | NS  | 7 U   | 46500 J   |
| Lead                              | µg/L  | 1.2 U                                    | 0.85 J                                    | 10.7   | NS  | 1.2 U                                       | 8.9   |
| Magnesium                         | µg/L  | 10800                                    | 19000                                     | 28800  | NS  | 123000                                      | 23400   |
| Manganese                         | µg/L  | 88                                       | 567                                       | 1510 J   | NS  | 4.8 U                                       | 1100 J  |
| Mercury                           | µg/L  | 0.03 U                                   | 0.09 UJ                                   | 0.11 R   | NS  | 0.11 R                                      | 0.1 R   |
| Nickel                            | µg/L  | 14.7 U                                   | 7.4 UJ                                    | 72.5   | NS  | 14.8 U                                      | 62.9  |
| Potassium                         | µg/L  | 2400 J                                   | 5160                                      | 8910 J   | NS  | 347 J                                       | 4020 J  |
| Selenium                          | µg/L  | 1 U                                      | 1.5 UJ                                    | 1.3 U  | NS  | 1 U   | 1.3 U   |
| Silver                            | µg/L  | 3.4 U                                    | 5.5 U                                     | 3.4 U  | NS  | 3.4 U                                       | 3.4 U   |
| Sodium                            | µg/L  | 27200                                    | 17800                                     | 8460   | NS  | 8580  | 9250  |
| Thallium                          | µg/L  | 3.2 U                                    | 2.6 U                                     | 3.2 U  | NS  | 3.2 U                                       | 3.2 U   |
| Vanadium                          | µg/L  | 8.4 U                                    | 8 J                                       | 46.7 J   | NS  | 8.5 U                                       | 32.7 J  |
| Zinc                              | µg/L  | 22.1 R                                   | 37.7                                      | 185 J  | NS  | 8.5 U                                       | 124 J   |
| Cyanide                           | µg/L  | NS                                       | 1.2 R                                     | 10 U   | NS  | NS  | 10 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRX LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE II                                    | PHASE I                                       | PHASE I   | PHASE II                                    | PHASE I                                       | PHASE I   | PHASE II                                    |
|----------------------------|--|---|---|---|---|---|---|---|
|                            |  | WATER<br>MW26<br>07/10/93<br>MW26<br>188719 | WATER<br>MW-29<br>01/18/92<br>MW-29<br>182572 | WATER<br>MW-29<br>01/18/92<br>MW-29Filtered<br>182691 | WATER<br>MW29<br>07/09/93<br>MW29<br>188697 | WATER<br>MW-30<br>01/18/92<br>MW-30<br>182642 | WATER<br>MW-30<br>01/18/92<br>MW-30Filtered<br>182667 | WATER<br>MW30<br>07/01/93<br>MW30<br>188123 |
| Chloromethane              | µg/L   | 10 U  | 10 U  | NS  | 10 U  | 10 U  | NS  | NS  |
| Bromomethane               | µg/L   | 10 U  | 10 U  | NS  | 10 U  | 10 U  | NS  | NS  |
| Vinyl Chloride             | µg/L   | 10 U  | 10 U  | NS  | 10 U  | 10 U  | NS  | NS  |
| Chloroethane               | µg/L   | 10 U  | 10 U  | NS  | 10 U  | 10 U  | NS  | NS  |
| Methylene Chloride         | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Acetone                    | µg/L   | 10 U  | 10 U  | NS  | 10 U  | 10 U  | NS  | NS  |
| Carbon Disulfide           | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| 1,1-Dichloroethane         | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| 1,1-Dichloroethane         | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| 1,2-Dichloroethane (total) | µg/L   | 83  | 71  | NS  | 97  | 5 U   | NS  | NS  |
| Chloroform                 | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| 1,2-Dichloroethane         | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| 2-Butanone                 | µg/L   | 10 U  | 10 U  | NS  | 10 U  | 10 U  | NS  | NS  |
| 1,1,1-Trichloroethane      | µg/L   | 10 U  | 5 U   | NS  | 2 J   | 5 U   | NS  | NS  |
| Carbon Tetrachloride       | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Vinyl Acetate              | µg/L   | NS  | 10 U  | NS  | NS  | 10 U  | NS  | NS  |
| Bromodichloromethane       | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| 1,2-Dichloropropane        | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| cis-1,3-Dichloropropene    | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Trichloroethane            | µg/L   | 35  | 1 J   | NS  | 2 J   | 5 U   | NS  | NS  |
| Dibromochloromethane       | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| 1,1,2-Trichloroethane      | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Benzene                    | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| trans-1,3-Dichloropropene  | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Bromoform                  | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| 4-Methyl-2-Pentanone       | µg/L   | 10 U  | 10 U  | NS  | 10 U  | 10 U  | NS  | NS  |
| 2-Hexanone                 | µg/L   | 10 U  | 10 U  | NS  | 10 U  | 10 U  | NS  | NS  |
| Tetrachloroethene          | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| 1,1,2,2-Tetrachloroethane  | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Toluene                    | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Chlorobenzene              | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Ethylbenzene               | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Styrene                    | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |
| Xylene (total)             | µg/L   | 10 U  | 5 U   | NS  | 10 U  | 5 U   | NS  | NS  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION             | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER |
|-----------------------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
| DATE                        | MW28           | MW-28         | MW-28         | MW28           | MW-30         | MW-30         | MW-30          |
| ES ID                       | 07/18/93       | 01/15/92      | 01/15/92      | 07/08/93       | 01/15/92      | 07/08/93      | 07/01/93       |
| LAB ID                      | MW28           | MW-28         | MW-28         | MW28           | MW-30         | MW-30         | MW30           |
| COMPOUND                    | 188719         | 182572        | 182591        | 18888T         | 182642        | 182687        | 188123         |
| VOC's (824.2)               |                |               |               |                |               |               |                |
| Dichlorodifluoromethane     | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Chloromethane               | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Vinyl Chloride              | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Bromomethane                | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Chloroethane                | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Trichlorofluoromethane      | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,1-Dichloroethane          | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Acetone                     | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Carbon Disulfide            | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Methylene Chloride          | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| trans-1,2-Dichloroethane    | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,1-Dichloroethane          | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 2,2-Dichloropropane         | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| cis-1,2-Dichloroethane      | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 2-Butanone                  | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Bromochloromethane          | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Chloroform                  | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,1,1-Trichloroethane       | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Carbon Tetrachloride        | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,1-Dichloropropane         | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Benzene                     | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,2-Dichloroethane          | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Trichloroethane             | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,2-Dichloropropane         | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Dibromomethane              | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Bromodichloromethane        | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| cis-1,2-Dichloropropane     | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 4-Methyl-2-Pentanone        | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Toluene                     | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| trans-1,3-Dichloropropane   | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,1,2-Trichloroethane       | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Tetrachloroethane           | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,3-Dichloropropane         | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 2-Hexanone                  | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Dibromochloromethane        | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,2-Dibromoethane           | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Chlorobenzene               | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,1,1,2-Tetrachloroethane   | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Ethylbenzene                | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Styrene                     | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Bromoform                   | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Isopropylbenzene            | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Bromobenzene                | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,1,2,2-Tetrachloroethane   | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,2,3-Trichloropropane      | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| n-Propylbenzene             | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 2-Chlorotoluene             | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 4-Chlorotoluene             | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,3,5-Trimethylbenzene      | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| tert-Butylbenzene           | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,2,4-Trimethylbenzene      | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| sec-Butylbenzene            | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,3-Dichlorobenzene         | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,4-Dichlorobenzene         | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| p-Isopropyltoluene          | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,2-Dichlorobenzene         | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| n-Butylbenzene              | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,2-Dibromo-3-Chloropropane | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,2,4-Trichlorobenzene      | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Hexachlorobenzene           | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Naphthalene                 | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| 1,2,3-Trichlorobenzene      | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |
| Xylene (ota)                | µg/L           | NS            | NS            | NS             | NS            | NS            | 0.5 U          |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | MATRX LOCATION DATE ES ID LAB ID UNITS | PHASE II                        | PHASE I                           | PHASE I                                    | PHASE II                        | PHASE I                           | PHASE I                                    | PHASE II                        |
|------------------------|--|---------------------------------|-----------------------------------|--|---------------------------------|-----------------------------------|--|---------------------------------|
|                        |  | WATER MW28 07/10/93 MW28 166719 | WATER MW-29 01/16/92 MW-29 162672 | WATER MW-29 01/16/92 MW-29 Filtered 162691 | WATER MW28 07/09/93 MW28 166867 | WATER MW-30 01/16/92 MW-30 162642 | WATER MW-30 01/16/92 MW-30 Filtered 162667 | WATER MW30 07/01/93 MW30 169123 |
| <b>PESTICIDES/PCBS</b> |  |                                 |                                   |  |                                 |                                   |  |                                 |
| alpha-BHC              | µg/L                                   | 0.06 U                          | 0.065 U                           | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| beta-BHC               | µg/L                                   | 0.06 U                          | 0.065 U                           | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| delta-BHC              | µg/L                                   | 0.06 U                          | 0.065 U                           | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| gamma-BHC (Lindane)    | µg/L                                   | 0.06 U                          | 0.065 U                           | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| Heptachlor             | µg/L                                   | 0.06 U                          | 0.065 U                           | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| Aldrin                 | µg/L                                   | 0.06 U                          | 0.065 U                           | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| Heptachlor epoxide     | µg/L                                   | 0.06 U                          | 0.065 U                           | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| Endosulfan I           | µg/L                                   | 0.06 U                          | 0.065 U                           | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| Dieldrin               | µg/L                                   | 0.1 U                           | 0.11 U                            | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| 4,4'-DDE               | µg/L                                   | 0.1 U                           | 0.11 U                            | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| Endrin                 | µg/L                                   | 0.1 U                           | 0.11 U                            | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| Endosulfan II          | µg/L                                   | 0.1 U                           | 0.11 U                            | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| 4,4'-DDD               | µg/L                                   | 0.1 U                           | 0.11 U                            | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| Endosulfan sulfate     | µg/L                                   | 0.1 U                           | 0.11 U                            | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| 4,4'-DDT               | µg/L                                   | 0.1 U                           | 0.11 U                            | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| Methoxychlor           | µg/L                                   | 0.8 U                           | 0.8 U                             | NS   | 0.8 U                           | 0.81 U                            | NS   | NS                              |
| Endrin ketone          | µg/L                                   | 0.1 U                           | 0.11 U                            | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| Endrin aldehyde        | µg/L                                   | 0.1 U                           | NS                                | NS   | 0.1 U                           | NS                                | NS   | NS                              |
| alpha-Chlordane        | µg/L                                   | 0.06 U                          | 0.06 U                            | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| gamma-Chlordane        | µg/L                                   | 0.06 U                          | 0.06 U                            | NS   | 0.06 U                          | 0.061 U                           | NS   | NS                              |
| Toxaphene              | µg/L                                   | 8 U                             | 1.1 U                             | NS   | 8 U                             | 1 U                               | NS   | NS                              |
| Aroclor-1016           | µg/L                                   | 1 U                             | 0.8 U                             | NS   | 1 U                             | 0.81 U                            | NS   | NS                              |
| Aroclor-1221           | µg/L                                   | 2 U                             | 0.65 U                            | NS   | 2 U                             | 0.81 U                            | NS   | NS                              |
| Aroclor-1232           | µg/L                                   | 1 U                             | 0.8 U                             | NS   | 1 U                             | 0.81 U                            | NS   | NS                              |
| Aroclor-1242           | µg/L                                   | 1 U                             | 0.8 U                             | NS   | 1 U                             | 0.81 U                            | NS   | NS                              |
| Aroclor-1248           | µg/L                                   | 1 U                             | 0.8 U                             | NS   | 1 U                             | 0.81 U                            | NS   | NS                              |
| Aroclor-1254           | µg/L                                   | 1 U                             | 1.1 U                             | NS   | 1 U                             | 1 U                               | NS   | NS                              |
| Aroclor-1260           | µg/L                                   | 1 U                             | 1.1 U                             | NS   | 1 U                             | 1 U                               | NS   | NS                              |
| <b>HERBICIDES</b>      |  |                                 |                                   |  |                                 |                                   |  |                                 |
| 2,4-D                  | µg/L                                   | 1 U                             | NS                                | NS   | 1 U                             | 1 U                               | NS   | NS                              |
| 2,4-DB                 | µg/L                                   | 1 U                             | NS                                | NS   | 1 U                             | 1 U                               | NS   | NS                              |
| 2,4,6-T                | µg/L                                   | 0.1 U                           | NS                                | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| 2,4,6-TP (Silvex)      | µg/L                                   | 0.1 U                           | NS                                | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| Dalapon                | µg/L                                   | 2.3 U                           | NS                                | NS   | 2.3 U                           | 2.3 U                             | NS   | NS                              |
| Dicamba                | µg/L                                   | 0.1 U                           | NS                                | NS   | 0.1 U                           | 0.1 U                             | NS   | NS                              |
| Dichloroprop           | µg/L                                   | 1 U                             | NS                                | NS   | 1 U                             | 1 U                               | NS   | NS                              |
| Dinoseb                | µg/L                                   | 0.8 U                           | NS                                | NS   | 0.8 U                           | 0.8 U                             | NS   | NS                              |
| MCPA                   | µg/L                                   | 100 U                           | NS                                | NS   | 100 U                           | 100 U                             | NS   | NS                              |
| MCPP                   | µg/L                                   | 100 U                           | NS                                | NS   | 100 U                           | 100 U                             | NS   | NS                              |
| <b>METALS</b>          |  |                                 |                                   |  |                                 |                                   |  |                                 |
| Aluminum               | µg/L                                   | 6980                            | 85700                             | 24.4 U                                     | 56800                           | 11200                             | 24.5 U                                     | 188 J                           |
| Antimony               | µg/L                                   | 48.5 UJ                         | 53.3 U                            | 53 U                                       | 98.2 J                          | 53.3 U                            | 53.2 U                                     | 49.6 UJ                         |
| Arsenic                | µg/L                                   | 1.4 UJ                          | 3.8 U                             | 3.8 U                                      | 2.4 J                           | 3.8 U                             | 3.8 U                                      | 1.4 UJ                          |
| Barium                 | µg/L                                   | 79.9 J                          | 418                               | 48.8 R                                     | 382                             | 93.3 J                            | 63.1 R                                     | 56.5 J                          |
| Beryllium              | µg/L                                   | 0.88 U                          | 8.8 R                             | 1.3 R                                      | 3 J                             | 30 U                              | 1.1 U                                      | 0.88 U                          |
| Cadmium                | µg/L                                   | 2.8 U                           | 17                                | 3 U  | 2.8 U                           | 30 U                              | 3 U  | 2.8 U                           |
| Calcium                | µg/L                                   | 121000                          | 248000                            | 124000                                     | 234000                          | 106000                            | 102000                                     | 121000                          |
| Chromium               | µg/L                                   | 8.9 J                           | 122                               | 8.2 U                                      | 83.8 J                          | 13.2                              | 8.2 U                                      | 2.9 J                           |
| Cobalt                 | µg/L                                   | 8.4 U                           | 83.8                              | 20.4 U                                     | 57.8                            | 20.5 U                            | 20.4 U                                     | 5.8 U                           |
| Copper                 | µg/L                                   | 8.1 J                           | 111                               | 10.1 U                                     | 84.5                            | 10.5 J                            | 10.2 U                                     | 4.7 U                           |
| Iron                   | µg/L                                   | 8530                            | 159000                            | 7 U  | 92000                           | 16800                             | 7 U  | 281                             |
| Lead                   | µg/L                                   | 2.2 J                           | 39.4                              | 1.2 U                                      | 26.8                            | 3.5                               | 1.2 U                                      | 0.59 U                          |
| Magnesium              | µg/L                                   | 13800                           | 88400                             | 14700                                      | 48900                           | 18900                             | 147000                                     | 16300                           |
| Manganese              | µg/L                                   | 271                             | 4110                              | 4.8 U                                      | 3270                            | 260                               | 4.8 U                                      | 11.8 J                          |
| Mercury                | µg/L                                   | 0.08 UJ                         | 0.14 R                            | 0.09 R                                     | 0.09 UJ                         | 0.1 R                             | 0.03 U                                     | 0.08 UJ                         |
| Nickel                 | µg/L                                   | 8.2 J                           | 182                               | 14.7 U                                     | 122 J                           | 16.8 J                            | 14.7 U                                     | 7.4 UJ                          |
| Potassium              | µg/L                                   | 2670 J                          | 10800                             | 563 J                                      | 8450                            | 3450 J                            | 1120 J                                     | 2310 J                          |
| Selenium               | µg/L                                   | 1.5 UJ                          | 13 U                              | 1.4 J                                      | 1.3 U                           | 1 U                               | 1 U  | 1.5 UJ                          |
| Silver                 | µg/L                                   | 5.4 U                           | 3.4 U                             | 4.5 R                                      | 5.5 U                           | 3.4 U                             | 3.4 U                                      | 5.5 U                           |
| Sodium                 | µg/L                                   | 10100                           | 26200                             | 28000                                      | 26800                           | 18400                             | 17800                                      | 26900                           |
| Thallium               | µg/L                                   | 2.6 U                           | 3.2 U                             | 3.2 U                                      | 2.6 U                           | 3.2 U                             | 3.2 U                                      | 2.6 U                           |
| Vanadium               | µg/L                                   | 12.6 J                          | 98.3                              | 8.4 U                                      | 78.2 J                          | 18.5 J                            | 8.5 U                                      | 6.7 UJ                          |
| Zinc                   | µg/L                                   | 28.5 R                          | 803                               | 8.4 U                                      | 300                             | 55.4 R                            | 20.1 R                                     | 10.2 J                          |
| Cyanide                | µg/L                                   | 1.7 UJ                          | 10 U                              | NS   | 1.2 R                           | 10 U                              | NS   | NS                              |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRX                      | PHASE I  | PHASE I        | PHASE II | PHASE I  | PHASE I        | PHASE II | PHASE I  |
|----------------------------|----------|----------------|----------|----------|----------------|----------|----------|
| LOCATION                   | WATER    | WATER          | WATER    | WATER    | WATER          | WATER    | WATER    |
| DATE                       | MW-31    | MW-31          | MW31     | MW-32    | MW-32          | MW32     | MW-33    |
| ES ID                      | 01/16/92 | 01/16/92       | 07/01/93 | 01/16/92 | 01/16/92       | 07/09/93 | 01/16/92 |
| LAB ID                     | MW-31    | MW-31 Filtered | MW31     | MW-32    | MW-32 Filtered | MW32     | MW-33    |
| UNITS                      | 152643   | 152686         | 185124   | 152644   | 152669         | 186591   | 152645   |
| Chloromethane              | µg/L     | 10 U           | NS       | NS       | 10 U           | NS       | NS       |
| Bromomethane               | µg/L     | 10 U           | NS       | NS       | 10 U           | NS       | NS       |
| Vinyl Chloride             | µg/L     | 10 U           | NS       | NS       | 10 U           | NS       | NS       |
| Chloroethane               | µg/L     | 10 U           | NS       | NS       | 10 U           | NS       | NS       |
| Methylene Chloride         | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Acetone                    | µg/L     | 10 U           | NS       | NS       | 10 U           | NS       | NS       |
| Carbon Disulfide           | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| 1,1-Dichloroethane         | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| 1,1-Dichloroethane         | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| 1,2-Dichloroethane (total) | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Chloroform                 | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| 1,2-Dichloroethane         | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| 2-Butanone                 | µg/L     | 10 U           | NS       | NS       | 10 U           | NS       | NS       |
| 1,1,1-Trichloroethane      | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Carbon Tetrachloride       | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Vinyl Acetate              | µg/L     | 10 U           | NS       | NS       | 10 U           | NS       | NS       |
| Bromodichloromethane       | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| 1,2-Dichloropropane        | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| cis-1,3-Dichloropropene    | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Trichloroethane            | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Dibromochloromethane       | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| 1,1,2-Trichloroethane      | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Benzene                    | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| trans-1,3-Dichloropropene  | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Bromoform                  | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| 4-Methyl-2-Pentanone       | µg/L     | 10 U           | NS       | NS       | 10 U           | NS       | NS       |
| 2-Hexanone                 | µg/L     | 10 U           | NS       | NS       | 10 U           | NS       | NS       |
| Tetrachloroethane          | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| 1,1,2,2-Tetrachloroethane  | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Toluene                    | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Chlorobenzene              | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Ethylbenzene               | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Styrene                    | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |
| Xylene (total)             | µg/L     | 5 U            | NS       | NS       | 5 U            | NS       | NS       |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID UNITS | PHASE I WATER MW-31 01/16/92 MW-31 152643 | PHASE I WATER MW-31 01/16/92 MW-31 Filtred 152668 | PHASE II WATER MW31 07/01/93 MW31 158124 | PHASE I WATER MW-32 01/16/92 MW-32 152644 | PHASE I WATER MW-32 01/16/92 MW-32 Filtred 152669 | PHASE II WATER MW32 07/08/93 MW32 168591 | PHASE I WATER MW-33 01/16/92 MW-33 152645 |
|---|---|---|--|---|---|--|---|
| VOC's (524.2)                           |   |   |  |   |   |  |   |
| Dichlorodifluoromethane                 | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Chloromethane                           | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Vinyl Chloride                          | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Bromomethane                            | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Chloroethane                            | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Trichlorofluoromethane                  | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,1-Dichloroethene                      | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Acetone                                 | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Carbon Disulfide                        | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Methylene Chloride                      | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| trans-1,2-Dichloroethene                | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,1-Dichloroethane                      | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 2,2-Dichloropropane                     | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| cis-1,2-Dichloroethene                  | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 2-Butanone                              | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Bromochloromethane                      | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Chloroform                              | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,1,1-Trichloroethane                   | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Carbon Tetrachloride                    | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,1-Dichloropropane                     | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Benzene                                 | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,2-Dichloroethane                      | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Trichloroethene                         | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,2-Dichloropropane                     | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Dibromomethane                          | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Bromodichloromethane                    | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| cis-1,3-Dichloropropane                 | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 4-Methyl-2-Pentanone                    | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Toluene                                 | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| trans-1,3-Dichloropropane               | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,1,2-Trichloroethane                   | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Tetrachloroethane                       | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,3-Dichloropropane                     | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 2-Hexanone                              | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Dibromochloromethane                    | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,2-Dibromoethane                       | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Chlorobenzene                           | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,1,1,2-Tetrachloroethane               | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Ethylbenzene                            | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Styrene                                 | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Bromoform                               | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Isopropylbenzene                        | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Bromobenzene                            | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,1,2,2-Tetrachloroethane               | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,2,3-Trichloropropane                  | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| n-Propylbenzene                         | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 2-Chlorotoluene                         | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 4-Chlorotoluene                         | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,3,5-Trimethylbenzene                  | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| tert-Butylbenzene                       | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,2,4-Trimethylbenzene                  | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| sec-Butylbenzene                        | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,3-Dichlorobenzene                     | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,4-Dichlorobenzene                     | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| p-Isopropyltoluene                      | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,2-Dichlorobenzene                     | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| n-Butylbenzene                          | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,2-Dibromo-3-Chloropropane             | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,2,4-Trichlorobenzene                  | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Hexachlorobutadiene                     | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Naphthalene                             | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| 1,2,3-Trichlorobenzene                  | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |
| Xylene (total)                          | µg/L NS                                   | NS  | 0.5 U                                    | NS  | NS  | 0.5 U                                    | NS  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX<br>LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE I                                       | PHASE I  | PHASE II                                    | PHASE I                                       | PHASE I  | PHASE II                                    | PHASE I                                       |
|------------------------------|--|---|--|---|---|--|---|---|
|                              |  | WATER<br>MW-31<br>01/16/92<br>MW-31<br>182643 | WATER<br>MW-31<br>01/16/92<br>MW-31 Filtered<br>182669 | WATER<br>MW31<br>07/01/93<br>MW31<br>186124 | WATER<br>MW-32<br>01/16/92<br>MW-32<br>182644 | WATER<br>MW-32<br>01/16/92<br>MW-32 Filtered<br>182669 | WATER<br>MW32<br>07/09/93<br>MW32<br>186691 | WATER<br>MW-33<br>01/16/92<br>MW-33<br>182646 |
| SEMIVOLATILES                |  |   |  |   |   |  |   |   |
| Phenol                       | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| bis(2-Chloroethyl) ether     | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2-Chlorophenol               | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 1,3-Dichlorobenzene          | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 1,4-Dichlorobenzene          | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Benzyl Alcohol               | µg/L   | 10 U  | NS   | NS  | 10 U  | NS   | NS  | 11 U  |
| 1,2-Dichlorobenzene          | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2-Methylphenol               | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| bis(2-Chloroisopropyl) ether | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 4-Methylphenol               | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| N-Nitroso-d-n-propylamine    | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Hexachloroethane             | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Nitrobenzene                 | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Isophorone                   | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2-Nitrophenol                | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2,4-Dimethylphenol           | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Benzoic acid                 | µg/L   | 82 U  | NS   | NS  | 80 U  | NS   | NS  | 85 U  |
| bis(2-Chloroethoxy) methane  | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2,4-Dichlorophenol           | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 1,2,4-Trichlorobenzene       | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Naphthalene                  | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 4-Chloroaniline              | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Hexachlorobutadiene          | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 4-Chloro-3-methylphenol      | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2-Methylnaphthalene          | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Hexachlorocyclopentadiene    | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2,4,6-Trichlorophenol        | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2,4,5-Trichlorophenol        | µg/L   | 82 U  | NS   | 25 U  | 80 U  | NS   | 25 U  | 85 U  |
| 2-Chloronaphthalene          | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2-Nitroaniline               | µg/L   | 82 U  | NS   | 25 U  | 80 U  | NS   | 25 U  | 85 U  |
| Dimethylphthalate            | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Acenaphthylene               | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2,6-Dinitrotoluene           | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 3-Nitroaniline               | µg/L   | 82 U  | NS   | 25 U  | 80 U  | NS   | 25 U  | 85 U  |
| Acenaphthene                 | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2,4-Dinitrophenol            | µg/L   | 82 U  | NS   | 25 U  | 80 U  | NS   | 25 U  | 85 U  |
| 4-Nitrophenol                | µg/L   | 82 U  | NS   | 25 U  | 80 U  | NS   | 25 U  | 85 U  |
| Dibenzofuran                 | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 2,4-Dinitrotoluene           | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Diethylphthalate             | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 4-Chlorophenyl-phenylether   | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Fluorene                     | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 4-Nitroaniline               | µg/L   | 82 U  | NS   | 25 U  | 80 U  | NS   | 25 U  | 85 U  |
| 4,6-Dinitro-2-methylphenol   | µg/L   | 82 U  | NS   | 25 U  | 80 U  | NS   | 25 U  | 85 U  |
| N-Nitrosodiphenylamine (I)   | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 4-Bromophenyl-phenylether    | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Hexachlorobenzene            | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Pentachlorophenol            | µg/L   | 82 U  | NS   | 25 U  | 80 U  | NS   | 25 U  | 85 U  |
| Phenanthrene                 | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Anthracene                   | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Carbazole                    | µg/L   | NS  | NS   | 10 U  | NS  | NS   | 10 U  | NS  |
| Di-n-butylphthalate          | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Fluoranthene                 | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Pyrene                       | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Bis(2-ethylhexyl)phthalate   | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| 3,3'-Dichlorobenzidine       | µg/L   | 21 U  | NS   | 10 U  | 20 U  | NS   | 10 U  | 22 U  |
| Benzo(a)anthracene           | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Chrysene                     | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| bis(2-Ethylhexyl)phthalate   | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Di-n-octylphthalate          | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Benzo(b)fluoranthene         | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Benzo(k)fluoranthene         | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Benzo(a)pyrene               | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Indeno(1,2,3-cd)pyrene       | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Dibenz(a,h)anthracene        | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |
| Benzo(g,h,i)perylene         | µg/L   | 10 U  | NS   | 10 U  | 10 U  | NS   | 10 U  | 11 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRX LOCATION         | PHASE I WATER | PHASE I WATER  | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER |
|------------------------|---------------|----------------|----------------|---------------|---------------|----------------|---------------|
| DATE                   | MW-31         | MW-31          | MW31           | MW-32         | MW-32         | MW32           | MW-33         |
| ES ID                  | 01/16/92      | 01/16/92       | 07/01/93       | 01/16/92      | 01/16/92      | 07/09/93       | 01/16/92      |
| LAB ID                 | MW-31         | MW-31 Filtered | MW31           | MW-32         | MW-32         | MW-32 Filtered | MW-33         |
| COMPOUND               | 152643        | 152668         | 108124         | 152644        | 152669        | 108581         | 152645        |
| UNITS                  |               |                |                |               |               |                |               |
| <b>PESTICIDES/PCBS</b> |               |                |                |               |               |                |               |
| alpha-BHC              | µg/L 0.06 U   | NS             | 0.06 U         | 0.06 U        | NS            | 0.06 U         | 0.066 U       |
| beta-BHC               | µg/L 0.06 U   | NS             | 0.06 U         | 0.06 U        | NS            | 0.06 U         | 0.066 U       |
| delta-BHC              | µg/L 0.06 U   | NS             | 0.06 U         | 0.06 U        | NS            | 0.06 U         | 0.066 U       |
| gamma-BHC (Lindane)    | µg/L 0.06 U   | NS             | 0.06 U         | 0.06 U        | NS            | 0.06 U         | 0.066 U       |
| Heptachlor             | µg/L 0.06 U   | NS             | 0.06 U         | 0.06 U        | NS            | 0.06 U         | 0.066 U       |
| Aldrin                 | µg/L 0.06 U   | NS             | 0.06 U         | 0.06 U        | NS            | 0.06 U         | 0.066 U       |
| Heptachlor epoxide     | µg/L 0.06 U   | NS             | 0.06 U         | 0.06 U        | NS            | 0.06 U         | 0.066 U       |
| Endosulfan I           | µg/L 0.06 U   | NS             | 0.06 U         | 0.06 U        | NS            | 0.06 U         | 0.066 U       |
| Dieldrin               | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 U          | 0.11 U        |
| 4,4'-DDE               | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 U          | 0.11 U        |
| Endrin                 | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 U          | 0.11 U        |
| Endosulfan II          | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 U          | 0.11 U        |
| 4,4'-DDD               | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 U          | 0.11 U        |
| Endosulfan sulfate     | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 U          | 0.11 U        |
| 4,4'-DDT               | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 U          | 0.11 U        |
| Methoxychlor           | µg/L 0.5 U    | NS             | 0.5 U          | 0.5 U         | NS            | 0.5 U          | 0.56 U        |
| Endrin ketone          | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 U          | 0.11 U        |
| Endrin aldehyde        | µg/L NS       | NS             | 0.1 U          | NS            | NS            | 0.1 U          | NS            |
| alpha-Chlordane        | µg/L 0.5 U    | NS             | 0.06 U         | 0.5 U         | NS            | 0.06 U         | 0.56 U        |
| gamma-Chlordane        | µg/L 0.5 U    | NS             | 0.06 U         | 0.5 U         | NS            | 0.06 U         | 0.56 U        |
| Toxaphene              | µg/L 1 U      | NS             | 5 U            | 1 U           | NS            | 5 U            | 1.1 U         |
| Aroclor-1018           | µg/L 0.5 U    | NS             | 1 U            | 0.5 U         | NS            | 1 U            | 0.56 U        |
| Aroclor-1221           | µg/L 0.5 U    | NS             | 2 U            | 0.5 U         | NS            | 2 U            | 0.56 U        |
| Aroclor-1232           | µg/L 0.5 U    | NS             | 1 U            | 0.5 U         | NS            | 1 U            | 0.56 U        |
| Aroclor-1242           | µg/L 0.5 U    | NS             | 1 U            | 0.5 U         | NS            | 1 U            | 0.56 U        |
| Aroclor-1248           | µg/L 0.5 U    | NS             | 1 U            | 0.5 U         | NS            | 1 U            | 0.56 U        |
| Aroclor-1254           | µg/L 1 U      | NS             | 1 U            | 1 U           | NS            | 1 U            | 1.1 U         |
| Aroclor-1260           | µg/L 1 U      | NS             | 1 U            | 1 U           | NS            | 1 U            | 1.1 U         |
| <b>HERBICIDES</b>      |               |                |                |               |               |                |               |
| 2,4-D                  | µg/L 1 U      | NS             | 1 U            | 1 U           | NS            | 1 R            | 1 U           |
| 2,4-DB                 | µg/L 1 U      | NS             | 1 U            | 1 U           | NS            | 1 R            | 1 U           |
| 2,4,5-T                | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 R          | 0.1 U         |
| 2,4,5-TP (Silvex)      | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 R          | 0.1 U         |
| Dalapon                | µg/L 2.4 U    | NS             | 2.3 U          | 2.3 U         | NS            | 2.3 R          | 2.3 U         |
| Dicamba                | µg/L 0.1 U    | NS             | 0.1 U          | 0.1 U         | NS            | 0.1 R          | 0.1 U         |
| Dichloroprop           | µg/L 1 U      | NS             | 1 U            | 1 U           | NS            | 1 R            | 1 U           |
| Dihoseb                | µg/L 0.5 U    | NS             | 0.5 U          | 0.5 U         | NS            | 0.5 R          | 0.5 U         |
| MCPA                   | µg/L 100 U    | NS             | 100 U          | 100 U         | NS            | 100 R          | 100 U         |
| MOPP                   | µg/L 100 U    | NS             | 100 U          | 100 U         | NS            | 100 R          | 100 U         |
| <b>METALS</b>          |               |                |                |               |               |                |               |
| Aluminum               | µg/L 83400    | 24.6 U         | 9890           | 35600         | 24.6 U        | 180 J          | 33700         |
| Antimony               | µg/L 53.3 U   | 53.3 U         | 80 UJ          | 53.2 U        | 53.3 U        | 49.5 UJ        | 53 U          |
| Arsenic                | µg/L 3.5 U    | 3.5 U          | 1.4 UJ         | 3.5 U         | 3.5 U         | 1.4 UJ         | 3.5 U         |
| Barium                 | µg/L 397      | 56.5 R         | 96 J           | 193           | 80.3 R        | 52.2 J         | 162 J         |
| Beryllium              | µg/L 6.7 R    | 1.1 U          | 0.9 U          | 3.8           | 1.1 U         | 0.89 U         | 3.4 R         |
| Cadmium                | µg/L 13.9     | 3 U            | 2.5 U          | 5.4           | 3 U           | 2.5 U          | 3.5 J         |
| Calcium                | µg/L 171000   | 92300          | 122000         | 156000        | 102000        | 131000         | 103000        |
| Chromium               | µg/L 109      | 6.2 U          | 14 J           | 81.3          | 6.2 U         | 2.7 UJ         | 42            |
| Cobalt                 | µg/L 48.2 J   | 20.5 U         | 8.5 J          | 20.4 U        | 20.5 U        | 5.4 U          | 20.3 U        |
| Copper                 | µg/L 86.1     | 10.2 U         | 10.7 J         | 23.8          | 10.2 U        | 4.7 U          | 32.8          |
| Iron                   | µg/L 147000   | 7 U            | 14700          | 63800         | 7 U           | 240            | 56800         |
| Lead                   | µg/L 20.9     | 1.2 U          | 2.3 J          | 12.1          | 1.2 U         | 0.6 U          | 9.8           |
| Magnesium              | µg/L 48000    | 11900          | 17800          | 31000         | 13400         | 17300          | 22400         |
| Manganese              | µg/L 2530     | 4.8 U          | 327            | 1190          | 72.4          | 82.1           | 950           |
| Mercury                | µg/L 0.14 R   | 0.03 U         | 0.08 UJ        | 0.14          | 0.03 U        | 0.09 UJ        | 0.11 R        |
| Nickel                 | µg/L 157      | 14.8 U         | 15 J           | 67.3          | 14.8 U        | 7.4 UJ         | 89.2          |
| Potassium              | µg/L 11700    | 497 J          | 3620 J         | 6240          | 1250 J        | 1620 J         | 4500 J        |
| Selenium               | µg/L 13 U     | 1 U            | 1.5 UJ         | 1.3 U         | 1.1 J         | 1.5 UJ         | 1.3 U         |
| Silver                 | µg/L 3.4 U    | 3.4 U          | 5.5 U          | 3.4 U         | 3.4 U         | 5.4 U          | 3.4 U         |
| Sodium                 | µg/L 15800    | 14700          | 17100          | 22200         | 21800         | 25500          | 18700         |
| Thallium               | µg/L 3.2 U    | 3.2 U          | 2.6 U          | 3.2 U         | 3.2 U         | 2.6 U          | 3.2 U         |
| Vanadium               | µg/L 87.3     | 8.5 U          | 15.2 J         | 46.8 J        | 8.5 U         | 6.7 UJ         | 41.6 J        |
| Zinc                   | µg/L 412      | 18.8 R         | 81.5           | 174           | 20.4 R        | 5 J            | 162           |
| Cyanide                | µg/L 10 U     | NS             | 10 UJ          | 10 U          | NS            | 3 J            | 10 U          |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | PHASE I     | PHASE I        | PHASE II |
|----------------------------|----------|-------------|----------------|----------|
|                            | LOCATION | WATER       | WATER          | WATER    |
|                            | DATE     | MW-33       | MW-33          | MW33     |
|                            | ES ID    | 02/03/92 CK | 01/18/92       | 07/10/93 |
|                            | LAB ID   | MW-33       | MW-33 Filtered | MW33     |
| UNITS                      | 183416   | 182670      | 188721         |          |
| Chloromethane              | µg/L     | 10 U        | NS             | NS       |
| Bromomethane               | µg/L     | 10 U        | NS             | NS       |
| Vinyl Chloride             | µg/L     | 10 U        | NS             | NS       |
| Chloroethane               | µg/L     | 10 U        | NS             | NS       |
| Methylene Chloride         | µg/L     | 8 U         | NS             | NS       |
| Acetone                    | µg/L     | 10 U        | NS             | NS       |
| Carbon Disulfide           | µg/L     | 8 U         | NS             | NS       |
| 1,1-Dichloroethane         | µg/L     | 8 U         | NS             | NS       |
| 1,1-Dichloroethane         | µg/L     | 8 U         | NS             | NS       |
| 1,2-Dichloroethane (total) | µg/L     | 8 U         | NS             | NS       |
| Chloroform                 | µg/L     | 8 U         | NS             | NS       |
| 1,2-Dichloroethane         | µg/L     | 8 U         | NS             | NS       |
| 2-Butanone                 | µg/L     | 10 U        | NS             | NS       |
| 1,1,1-Trichloroethane      | µg/L     | 8 U         | NS             | NS       |
| Carbon Tetrachloride       | µg/L     | 8 U         | NS             | NS       |
| Vinyl Acetate              | µg/L     | 10 U        | NS             | NS       |
| Bromochloromethane         | µg/L     | 8 U         | NS             | NS       |
| 1,2-Dichloropropane        | µg/L     | 8 U         | NS             | NS       |
| cis-1,3-Dichloropropene    | µg/L     | 8 U         | NS             | NS       |
| Trichloroethane            | µg/L     | 8 U         | NS             | NS       |
| Dibromochloromethane       | µg/L     | 8 U         | NS             | NS       |
| 1,1,2-Trichloroethane      | µg/L     | 8 U         | NS             | NS       |
| Benzene                    | µg/L     | 8 U         | NS             | NS       |
| trans-1,3-Dichloropropene  | µg/L     | 8 U         | NS             | NS       |
| Bromoform                  | µg/L     | 8 U         | NS             | NS       |
| 4-Methyl-2-Pentanone       | µg/L     | 10 U        | NS             | NS       |
| 2-Hexanone                 | µg/L     | 10 U        | NS             | NS       |
| Tetrachloroethane          | µg/L     | 8 U         | NS             | NS       |
| 1,1,2,2-Tetrachloroethane  | µg/L     | 8 U         | NS             | NS       |
| Toluene                    | µg/L     | 8 U         | NS             | NS       |
| Chlorobenzene              | µg/L     | 8 U         | NS             | NS       |
| Ethylbenzene               | µg/L     | 8 U         | NS             | NS       |
| Styrene                    | µg/L     | 8 U         | NS             | NS       |
| Xylene (total)             | µg/L     | 8 U         | NS             | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                    | MATRIX<br>LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE I  | PHASE I  | PHASE II                                    |
|-----------------------------|--|--|--|---|
|                             |  | WATER<br>MW-33<br>02/03/92 CK<br>MW-33<br>183416 | WATER<br>MW-33<br>01/16/92<br>MW-33FRe red<br>182670 | WATER<br>MW33<br>07/10/93<br>MW33<br>186721 |
| VOC's (824.2)               |  |  |  |   |
| Dichlorodifluoromethane     | µg/L   | NS   | NS   | 0.8 U                                       |
| Chloromethane               | µg/L   | NS   | NS   | 0.8 U                                       |
| Vinyl Chloride              | µg/L   | NS   | NS   | 0.8 U                                       |
| Bromomethane                | µg/L   | NS   | NS   | 0.8 U                                       |
| Chloroethane                | µg/L   | NS   | NS   | 0.8 U                                       |
| Trichlorofluoromethane      | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,1-Dichloroethene          | µg/L   | NS   | NS   | 0.8 U                                       |
| Acetone                     | µg/L   | NS   | NS   | 8 U   |
| Carbon Disulfide            | µg/L   | NS   | NS   | 0.8 U                                       |
| Methylene Chloride          | µg/L   | NS   | NS   | 0.8 U                                       |
| trans-1,2-Dichloroethene    | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,1-Dichloroethane          | µg/L   | NS   | NS   | 0.8 U                                       |
| 2,2-Dichloropropane         | µg/L   | NS   | NS   | 0.8 U                                       |
| cis-1,2-Dichloroethene      | µg/L   | NS   | NS   | 0.8 U                                       |
| 2-Butanone                  | µg/L   | NS   | NS   | 8 U   |
| Bromochloromethane          | µg/L   | NS   | NS   | 0.8 U                                       |
| Chloroform                  | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,1,1-Trichloroethane       | µg/L   | NS   | NS   | 0.8 U                                       |
| Carbon Tetrachloride        | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,1-Dichloropropene         | µg/L   | NS   | NS   | 0.8 U                                       |
| Benzene                     | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,2-Dichloroethane          | µg/L   | NS   | NS   | 0.8 U                                       |
| Trichloroethene             | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,2-Dichloropropane         | µg/L   | NS   | NS   | 0.8 U                                       |
| Dibromomethane              | µg/L   | NS   | NS   | 0.8 U                                       |
| Bromodichloromethane        | µg/L   | NS   | NS   | 0.8 U                                       |
| cis-1,3-Dichloropropene     | µg/L   | NS   | NS   | 0.8 U                                       |
| 4-Methyl-2-Pentanone        | µg/L   | NS   | NS   | 8 U   |
| Toluene                     | µg/L   | NS   | NS   | 0.8 U                                       |
| trans-1,3-Dichloropropene   | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,1,2-Trichloroethane       | µg/L   | NS   | NS   | 0.8 U                                       |
| Tetrachloroethene           | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,3-Dichloropropane         | µg/L   | NS   | NS   | 0.8 U                                       |
| 2-Hexanone                  | µg/L   | NS   | NS   | 8 U   |
| Dibromochloromethane        | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,2-Dibromoethane           | µg/L   | NS   | NS   | 0.8 U                                       |
| Chlorobenzene               | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,1,1,2-Tetrachloroethane   | µg/L   | NS   | NS   | 0.8 U                                       |
| Ethylbenzene                | µg/L   | NS   | NS   | 0.8 U                                       |
| Styrene                     | µg/L   | NS   | NS   | 0.8 U                                       |
| Bromoform                   | µg/L   | NS   | NS   | 0.8 U                                       |
| Isopropylbenzene            | µg/L   | NS   | NS   | 0.8 U                                       |
| Bromobenzene                | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,1,2,2-Tetrachloroethane   | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,2,3-Trichloropropane      | µg/L   | NS   | NS   | 0.8 U                                       |
| n-Propylbenzene             | µg/L   | NS   | NS   | 0.8 U                                       |
| 2-Chlorotoluene             | µg/L   | NS   | NS   | 0.8 U                                       |
| 4-Chlorotoluene             | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,3,5-Trimethylbenzene      | µg/L   | NS   | NS   | 0.8 U                                       |
| tert-Butylbenzene           | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,2,4-Trimethylbenzene      | µg/L   | NS   | NS   | 0.8 U                                       |
| sec-Butylbenzene            | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,3-Dichlorobenzene         | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,4-Dichlorobenzene         | µg/L   | NS   | NS   | 0.8 U                                       |
| p-Isopropyltoluene          | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,2-Dichlorobenzene         | µg/L   | NS   | NS   | 0.8 U                                       |
| n-Butylbenzene              | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,2-Dibromo-3-Chloropropane | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,2,4-Trichlorobenzene      | µg/L   | NS   | NS   | 0.8 U                                       |
| Hexachlorobutadiene         | µg/L   | NS   | NS   | 0.8 U                                       |
| Naphthalene                 | µg/L   | NS   | NS   | 0.8 U                                       |
| 1,2,3-Trichlorobenzene      | µg/L   | NS   | NS   | 0.8 U                                       |
| Xylene (total)              | µg/L   | NS   | NS   | 0.8 U                                       |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX LOCATION<br>DATE<br>EB ID<br>LAB ID<br>UNITS | PHASE I  | PHASE I  | PHASE II                                    |
|------------------------------|---|--|--|---|
|                              |   | WATER<br>MW-33<br>02/03/82 OK<br>MW-33<br>163416 | WATER<br>MW-33<br>01/18/82<br>MW-33 Filtered<br>182670 | WATER<br>MW33<br>07/10/83<br>MW33<br>186721 |
| SEMIVOLATILES                |   |  |  |   |
| Phenol                       | µg/L  | NS   | NS   | NS  |
| bis(2-Chloroethyl) ether     | µg/L  | NS   | NS   | NS  |
| 2-Chlorophenol               | µg/L  | NS   | NS   | NS  |
| 1,3-Dichlorobenzene          | µg/L  | NS   | NS   | NS  |
| 1,4-Dichlorobenzene          | µg/L  | NS   | NS   | NS  |
| Benzyl Alcohol               | µg/L  | NS   | NS   | NS  |
| 1,2-Dichlorobenzene          | µg/L  | NS   | NS   | NS  |
| 2-Methylphenol               | µg/L  | NS   | NS   | NS  |
| bis(2-Chloroisopropyl) ether | µg/L  | NS   | NS   | NS  |
| 4-Methylphenol               | µg/L  | NS   | NS   | NS  |
| N-Nitroso-di-n-propylamine   | µg/L  | NS   | NS   | NS  |
| Hexachloroethane             | µg/L  | NS   | NS   | NS  |
| Nitrobenzene                 | µg/L  | NS   | NS   | NS  |
| Isophorone                   | µg/L  | NS   | NS   | NS  |
| 2-Nitrophenol                | µg/L  | NS   | NS   | NS  |
| 2,4-Dimethylphenol           | µg/L  | NS   | NS   | NS  |
| Benzoic acid                 | µg/L  | NS   | NS   | NS  |
| bis(2-Chloroethoxy) methane  | µg/L  | NS   | NS   | NS  |
| 2,4-Dichlorophenol           | µg/L  | NS   | NS   | NS  |
| 1,2,4-Trichlorobenzene       | µg/L  | NS   | NS   | NS  |
| Naphthalene                  | µg/L  | NS   | NS   | NS  |
| 4-Chloroaniline              | µg/L  | NS   | NS   | NS  |
| Hexachlorobutadiene          | µg/L  | NS   | NS   | NS  |
| 4-Chloro-3-methylphenol      | µg/L  | NS   | NS   | NS  |
| 2-Methylnaphthalene          | µg/L  | NS   | NS   | NS  |
| Hexachlorocyclopentadiene    | µg/L  | NS   | NS   | NS  |
| 2,4,6-Trichlorophenol        | µg/L  | NS   | NS   | NS  |
| 2,4,8-Trichlorophenol        | µg/L  | NS   | NS   | NS  |
| 2-Chloronaphthalene          | µg/L  | NS   | NS   | NS  |
| 2-Nitroaniline               | µg/L  | NS   | NS   | NS  |
| Dimethylphthalate            | µg/L  | NS   | NS   | NS  |
| Acenaphthylene               | µg/L  | NS   | NS   | NS  |
| 2,6-Dinitrotoluene           | µg/L  | NS   | NS   | NS  |
| 3-Nitroaniline               | µg/L  | NS   | NS   | NS  |
| Acenaphthene                 | µg/L  | NS   | NS   | NS  |
| 2,4-Dinitrophenol            | µg/L  | NS   | NS   | NS  |
| 4-Nitrophenol                | µg/L  | NS   | NS   | NS  |
| Dibenzofuran                 | µg/L  | NS   | NS   | NS  |
| 2,4-Dinitrotoluene           | µg/L  | NS   | NS   | NS  |
| Diethylphthalate             | µg/L  | NS   | NS   | NS  |
| 4-Chlorophenyl-phenylether   | µg/L  | NS   | NS   | NS  |
| Fluorene                     | µg/L  | NS   | NS   | NS  |
| 4-Nitroaniline               | µg/L  | NS   | NS   | NS  |
| 4,8-Dinitro-2-methylphenol   | µg/L  | NS   | NS   | NS  |
| N-Nitrosodiphenylamine (1)   | µg/L  | NS   | NS   | NS  |
| 4-Bromophenyl-phenylether    | µg/L  | NS   | NS   | NS  |
| Hexachlorobenzene            | µg/L  | NS   | NS   | NS  |
| Pentachlorophenol            | µg/L  | NS   | NS   | NS  |
| Phenanthrene                 | µg/L  | NS   | NS   | NS  |
| Anthracene                   | µg/L  | NS   | NS   | NS  |
| Carbazole                    | µg/L  | NS   | NS   | NS  |
| Di-n-butylphthalate          | µg/L  | NS   | NS   | NS  |
| Fluoranthene                 | µg/L  | NS   | NS   | NS  |
| Pyrene                       | µg/L  | NS   | NS   | NS  |
| Butylbenzylphthalate         | µg/L  | NS   | NS   | NS  |
| 3,3'-Dichlorobenzidine       | µg/L  | NS   | NS   | NS  |
| Benzo(a)anthracene           | µg/L  | NS   | NS   | NS  |
| Chrysene                     | µg/L  | NS   | NS   | NS  |
| bis(2-Ethylhexyl)phthalate   | µg/L  | NS   | NS   | NS  |
| Di-n-octylphthalate          | µg/L  | NS   | NS   | NS  |
| Benzo(b)fluoranthene         | µg/L  | NS   | NS   | NS  |
| Benzo(k)fluoranthene         | µg/L  | NS   | NS   | NS  |
| Benzo(a)pyrene               | µg/L  | NS   | NS   | NS  |
| Indeno(1,2,3-cd)pyrene       | µg/L  | NS   | NS   | NS  |
| Dibenz(a,h)anthracene        | µg/L  | NS   | NS   | NS  |
| Benzo(g,h,i)perylene         | µg/L  | NS   | NS   | NS  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND            | MATRIX   | PHASE I     | PHASE I        | PHASE II |
|---------------------|----------|-------------|----------------|----------|
|                     | LOCATION | WATER       | WATER          | WATER    |
|                     | DATE     | MW-33       | MW-33          | MW33     |
|                     | ES ID    | 02/02/82 CK | 01/18/82       | 07/10/83 |
|                     | LAB ID   | MW-33       | MW-33 Filtered | MW33     |
| UNITS               | 183418   | 182670      | 188721         |          |
| <b>VOC's</b>        |          |             |                |          |
| alpha-BHC           | µg/L     | NS          | NS             | NS       |
| beta-BHC            | µg/L     | NS          | NS             | NS       |
| delta-BHC           | µg/L     | NS          | NS             | NS       |
| gamma-BHC (Lindane) | µg/L     | NS          | NS             | NS       |
| Heptachlor          | µg/L     | NS          | NS             | NS       |
| Aldrin              | µg/L     | NS          | NS             | NS       |
| Heptachlor epoxide  | µg/L     | NS          | NS             | NS       |
| Endosulfan I        | µg/L     | NS          | NS             | NS       |
| Dieldrin            | µg/L     | NS          | NS             | NS       |
| 4,4'-DDE            | µg/L     | NS          | NS             | NS       |
| Endrin              | µg/L     | NS          | NS             | NS       |
| Endosulfan II       | µg/L     | NS          | NS             | NS       |
| 4,4'-DDD            | µg/L     | NS          | NS             | NS       |
| Endosulfan sulfate  | µg/L     | NS          | NS             | NS       |
| 4,4'-DDT            | µg/L     | NS          | NS             | NS       |
| Methoxychlor        | µg/L     | NS          | NS             | NS       |
| Endrin ketone       | µg/L     | NS          | NS             | NS       |
| Endrin aldehyde     | µg/L     | NS          | NS             | NS       |
| alpha-Chlordane     | µg/L     | NS          | NS             | NS       |
| gamma-Chlordane     | µg/L     | NS          | NS             | NS       |
| Toxaphene           | µg/L     | NS          | NS             | NS       |
| Aroclor-1018        | µg/L     | NS          | NS             | NS       |
| Aroclor-1221        | µg/L     | NS          | NS             | NS       |
| Aroclor-1232        | µg/L     | NS          | NS             | NS       |
| Aroclor-1242        | µg/L     | NS          | NS             | NS       |
| Aroclor-1248        | µg/L     | NS          | NS             | NS       |
| Aroclor-1254        | µg/L     | NS          | NS             | NS       |
| Aroclor-1260        | µg/L     | NS          | NS             | NS       |
| <b>HERBICIDES</b>   |          |             |                |          |
| 2,4-D               | µg/L     | NS          | NS             | NS       |
| 2,4-DB              | µg/L     | NS          | NS             | NS       |
| 2,4,6-T             | µg/L     | NS          | NS             | NS       |
| 2,4,6-TP (Silvex)   | µg/L     | NS          | NS             | NS       |
| Dalapon             | µg/L     | NS          | NS             | NS       |
| Dicamba             | µg/L     | NS          | NS             | NS       |
| Dichloroprop        | µg/L     | NS          | NS             | NS       |
| Dinoseb             | µg/L     | NS          | NS             | NS       |
| MCPA                | µg/L     | NS          | NS             | NS       |
| MCPP                | µg/L     | NS          | NS             | NS       |
| <b>METALS</b>       |          |             |                |          |
| Aluminum            | µg/L     | NS          | 24.8 U         | NS       |
| Antimony            | µg/L     | NS          | 83.1 U         | NS       |
| Arsenic             | µg/L     | NS          | 3.8 U          | NS       |
| Barium              | µg/L     | NS          | 52.7 R         | NS       |
| Beryllium           | µg/L     | NS          | 1.1 U          | NS       |
| Cadmium             | µg/L     | NS          | 3 U            | NS       |
| Calcium             | µg/L     | NS          | 98600          | NS       |
| Chromium            | µg/L     | NS          | 8.2 U          | NS       |
| Cobalt              | µg/L     | NS          | 20.4 U         | NS       |
| Copper              | µg/L     | NS          | 10.1 U         | NS       |
| Iron                | µg/L     | NS          | 7 U            | NS       |
| Lead                | µg/L     | NS          | 1.2 U          | NS       |
| Magnesium           | µg/L     | NS          | 9960           | NS       |
| Manganese           | µg/L     | NS          | 4.8 U          | NS       |
| Mercury             | µg/L     | NS          | 0.03 U         | NS       |
| Nickel              | µg/L     | NS          | 14.7 U         | NS       |
| Potassium           | µg/L     | NS          | 288 U          | NS       |
| Selenium            | µg/L     | NS          | 1 U            | NS       |
| Silver              | µg/L     | NS          | 3.4 U          | NS       |
| Sodium              | µg/L     | NS          | 14700          | NS       |
| Thallium            | µg/L     | NS          | 3.2 U          | NS       |
| Vanadium            | µg/L     | NS          | 9.4 U          | NS       |
| Zinc                | µg/L     | NS          | 21.2 R         | NS       |
| Cyanide             | µg/L     | NS          | NS             | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER |    |
|----------------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----|
| DATE                       | MW-34         | MW-34         | MW-34         | MW-34         | MW34           | MW-35D        | MW-35D        |    |
| ES ID                      | MW-34         | MW-34Filerd   | PT-1(I)       | PT-1(I)Filt   | MW34           | MW-35D        | MW-35D        |    |
| LAB ID                     | 182287        | 182290        | 182289        | 182292        | 187340         | 182503        | 182608        |    |
| COMPOUND                   | UNITS         |               |               |               |                |               |               |    |
| Chloromethane              | ug/L          | 10 U          | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Bromomethane               | ug/L          | 10 U          | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Vinyl Chloride             | ug/L          | 10 U          | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Chloroethane               | ug/L          | 10 U          | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Methylene Chloride         | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Acetone                    | ug/L          | 10 U          | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Carbon Disulfide           | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,1-Dichloroethene         | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,1-Dichloroethane         | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,2-Dichloroethene (total) | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Chloroform                 | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,2-Dichloroethane         | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 2-Butanone                 | ug/L          | 10 U          | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| 1,1,1-Trichloroethane      | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Carbon Tetrachloride       | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Vinyl Acetate              | ug/L          | 10 U          | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Bromodichloromethane       | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,2-Dichloropropane        | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| cis-1,3-Dichloropropene    | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Trichloroethene            | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Dibromochloromethane       | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,1,2-Trichloroethane      | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Benzene                    | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| trans-1,3-Dichloropropene  | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Bromoform                  | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 4-Methyl-2-Pentanone       | ug/L          | 10 U          | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| 2-Hexanone                 | ug/L          | 10 U          | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Tetrachloroethene          | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,1,2,2-Tetrachloroethane  | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Toluene                    | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Chlorobenzene              | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Ethylbenzene               | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Styrene                    | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Xylene (total)             | ug/L          | 5 U           | NS            | 5 U           | NS             | NS            | 5 U           | NS |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION             | PHASE I WATER | PHASE I WATER  | PHASE I WATER | PHASE I WATER   | PHASE II WATER | PHASE I WATER | PHASE I WATER |
|-----------------------------|---------------|----------------|---------------|-----------------|----------------|---------------|---------------|
| DATE                        | MW-34         | MW-34          | MW-34         | MW-34           | MW34           | MW-35D        | MW-35D        |
| ES ID                       | 01/10/92      | 01/10/92       | 01/10/92      | 01/10/92        | 01/10/92       | 01/14/92      | 01/14/92      |
| LAB ID                      | MW-34         | MW-34 Filtered | PT-1 (1)      | PT-1 (1) Filter | MW34           | MW-35D        | MW-35D Filter |
| UNITS                       | 152267        | 152290         | 152259        | 152292          | 157340         | 152503        | 152508        |
| COMPOUND                    |               |                |               |                 |                |               |               |
| VOC's (824.2)               |               |                |               |                 |                |               |               |
| Dichlorodifluoromethane     | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Chloromethane               | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Vinyl Chloride              | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Bromomethane                | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Chloroethane                | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Trichlorofluoromethane      | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,1-Dichloroethane          | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Acetone                     | ug/L          | NS             | NS            | NS              | NS             | 5 U           | NS            |
| Carbon Disulfide            | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Methylene Chloride          | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| trans-1,2-Dichloroethane    | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,1-Dichloroethane          | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 2,2-Dichloropropane         | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| cis-1,2-Dichloroethane      | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 2-Butanone                  | ug/L          | NS             | NS            | NS              | NS             | 5 U           | NS            |
| Bromochloromethane          | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Chloroform                  | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,1,1-Trichloroethane       | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Carbon Tetrachloride        | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,1-Dichloropropane         | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Benzene                     | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,2-Dichloroethane          | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Trichloroethene             | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,2-Dichloropropane         | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Dibromomethane              | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Bromodichloromethane        | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| cis-1,3-Dichloropropene     | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 4-Methyl-2-Pentanone        | ug/L          | NS             | NS            | NS              | NS             | 5 U           | NS            |
| Toluene                     | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| trans-1,3-Dichloropropene   | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,1,2-Trichloroethane       | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Tetrachloroethene           | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,3-Dichloropropane         | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 2-Hexanone                  | ug/L          | NS             | NS            | NS              | NS             | 5 U           | NS            |
| Dibromochloromethane        | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,2-Dibromoethane           | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Chlorobenzene               | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,1,1,2-Tetrachloroethane   | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Ethylbenzene                | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Styrene                     | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Bromoform                   | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Isopropylbenzene            | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Bromobenzene                | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,1,2,2-Tetrachloroethane   | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,2,3-Trichloropropane      | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| n-Propylbenzene             | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 2-Chlorotoluene             | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 4-Chlorotoluene             | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,3,5-Trimethylbenzene      | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| tert-Butylbenzene           | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,2,4-Trimethylbenzene      | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| sec-Butylbenzene            | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,3-Dichlorobenzene         | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,4-Dichlorobenzene         | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| p-Isopropyltoluene          | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,2-Dichlorobenzene         | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| n-Butylbenzene              | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,2-Dibromo-3-Chloropropane | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,2,4-Trichlorobenzene      | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Hexachlorobutadiene         | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Naphthalene                 | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| 1,2,3-Trichlorobenzene      | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |
| Xylene (total)              | ug/L          | NS             | NS            | NS              | NS             | 0.5 U         | NS            |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRX<br>LOCATION<br>DATE<br>ES ID<br>LAB ID<br>COMPOUND | PHASE I<br>WATER<br>MW-34<br>01/10/92<br>MW-34<br>182287 | PHASE I<br>WATER<br>MW-34<br>01/10/92<br>MW-34Filtered<br>182290 | PHASE I<br>WATER<br>MW-34<br>01/10/92<br>PT-1(1)<br>182289 | PHASE I<br>WATER<br>MW-34<br>01/10/92<br>PT-1(1)Filter<br>182292 | PHASE II<br>WATER<br>MW34<br>08/24/93<br>MW34<br>187340 | PHASE I<br>WATER<br>MW-35D<br>01/14/92<br>MW-35D<br>182603 | PHASE I<br>WATER<br>MW-35D<br>01/14/92<br>MW-35DFI<br>182506 |    |
|--|--|--|--|--|---|--|--|----|
| SEMI-VOLATILES   |  |  |  |  |   |  |  |    |
| Phenol   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| bis(2-Chloroethyl) ether                                 | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2-Chlorophenol   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 1,3-Dichlorobenzene                                      | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 1,4-Dichlorobenzene                                      | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Benzyl Alcohol   | ug/L   | 11 U   | NS   | NS   | NS  | NS   | 10 U   | NS |
| 1,2-Dichlorobenzene                                      | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2-Methylphenol   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| bis(2-Chloroisopropyl) ether                             | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 4-Methylphenol   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| N-Nitrosod-n-propylamine                                 | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Hexachloroethane   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Nitrobenzene   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Isophorone   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2-Nitrophenol  | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2,4-Dimethylphenol                                       | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Benzoic acid   | ug/L   | 84 U   | NS   | NS   | NS  | NS   | 50 U   | NS |
| bis(2-Chloroisobutyl) methane                            | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2,4-Dichlorophenol                                       | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 1,2,4-Trichlorobenzene                                   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Naphthalene  | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 4-Chloroaniline  | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Hexachlorobutadiene                                      | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 4-Chloro-3-methylphenol                                  | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2-Methylnaphthalene                                      | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Hexachlorocyclopentadiene                                | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2,4,6-Trichlorophenol                                    | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2,4,6-Trichlorophenol                                    | ug/L   | 84 U   | NS   | NS   | NS  | 26 U   | 80 U   | NS |
| 2-Chloronaphthalene                                      | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2-Nitroaniline   | ug/L   | 84 U   | NS   | NS   | NS  | 26 U   | 80 U   | NS |
| Dimethylphthalate  | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Acenaphthylene   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2,6-Dinitrotoluene                                       | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 3-Nitroaniline   | ug/L   | 84 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Acenaphthene   | ug/L   | 11 U   | NS   | NS   | NS  | 26 U   | 80 U   | NS |
| 2,4-Dinitrophenol  | ug/L   | 84 U   | NS   | NS   | NS  | 26 U   | 80 U   | NS |
| 4-Nitrophenol  | ug/L   | 84 U   | NS   | NS   | NS  | 26 U   | 80 U   | NS |
| Dibenzofuran   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 2,4-Dinitrotoluene                                       | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Diethylphthalate   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 4-Chlorophenyl-phenylether                               | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Fluorene   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 4-Nitroaniline   | ug/L   | 84 U   | NS   | NS   | NS  | 26 U   | 80 U   | NS |
| 4,4-Dinitro-2-methylphenol                               | ug/L   | 84 U   | NS   | NS   | NS  | 26 U   | 80 U   | NS |
| N-Nitrosodiphenylamine (1)                               | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 4-Bromophenyl-phenylether                                | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Hexachlorobenzene  | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Perilchlorophenol  | ug/L   | 84 U   | NS   | NS   | NS  | 26 U   | 80 U   | NS |
| Phenanthrene   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Anthracene   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Carbazole  | ug/L   | NS   | NS   | NS   | NS  | 10 U   | NS   | NS |
| Di-n-butylphthalate                                      | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Fluoranthene   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Pyrene   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Butylbenzylphthalate                                     | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| 3,3'-Dichlorobenzidine                                   | ug/L   | 21 U   | NS   | NS   | NS  | 10 U   | 20 U   | NS |
| Benzo(a)anthracene                                       | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Chrysene   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| bis(2-Ethoxyethyl)phthalate                              | ug/L   | 11 U   | NS   | NS   | NS  | 12 U   | 10 U   | NS |
| Di-n-octylphthalate                                      | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Benzo(b)fluoranthene                                     | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Benzo(k)fluoranthene                                     | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Benzo(a)pyrene   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Indeno(1,2,3-cd)pyrene                                   | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Dibenz(a,h)anthracene                                    | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |
| Benzo(g,h,i)perylene                                     | ug/L   | 11 U   | NS   | NS   | NS  | 10 U   | 10 U   | NS |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | MATRIX LOCATION | PHASE I  | PHASE I      | PHASE I  | PHASE I     | PHASE II | PHASE I  | PHASE I  |
|------------------------|-----------------|----------|--------------|----------|-------------|----------|----------|----------|
|                        |                 | WATER    | WATER        | WATER    | WATER       | WATER    | WATER    | WATER    |
|                        |                 | MW-34    | MW-34        | MW-34    | MW-34       | MW34     | MW-36D   | MW-36D   |
|                        |                 | 01/10/92 | 01/10/92     | 01/10/92 | 01/10/92    | 08/24/93 | 01/14/92 | 01/14/92 |
|                        |                 | MW-34    | MW-34Filered | PT-1(1)  | PT-1(1)Filt | MW34     | MW-36D   | MW-36DFI |
|                        |                 | 152257   | 182290       | 152259   | 152292      | 187340   | 152503   | 152508   |
|                        |                 | DATE     | LAB ID       | DATE     | DATE        | DATE     | DATE     | DATE     |
|                        |                 | UNIT8    | UNIT8        | UNIT8    | UNIT8       | UNIT8    | UNIT8    | UNIT8    |
| <b>PESTICIDES/PCBS</b> |                 |          |              |          |             |          |          |          |
| alpha-BHC              | ug/L            | 0.057 U  | NS           | NS       | NS          | 0.06 U   | 0.06 U   | NS       |
| beta-BHC               | ug/L            | 0.057 U  | NS           | NS       | NS          | 0.06 U   | 0.06 U   | NS       |
| delta-BHC              | ug/L            | 0.057 U  | NS           | NS       | NS          | 0.06 U   | 0.06 U   | NS       |
| gamma-BHC (Lindane)    | ug/L            | 0.057 U  | NS           | NS       | NS          | 0.06 U   | 0.06 U   | NS       |
| Heptachlor             | ug/L            | 0.057 U  | NS           | NS       | NS          | 0.06 U   | 0.06 U   | NS       |
| Aldrin                 | ug/L            | 0.057 U  | NS           | NS       | NS          | 0.06 U   | 0.06 U   | NS       |
| Heptachlor epoxide     | ug/L            | 0.057 U  | NS           | NS       | NS          | 0.06 U   | 0.06 U   | NS       |
| Endosulfan I           | ug/L            | 0.057 U  | NS           | NS       | NS          | 0.06 U   | 0.06 U   | NS       |
| Dieldrin               | ug/L            | 0.11 U   | NS           | NS       | NS          | 0.1 U    | 0.12 U   | NS       |
| 4,4'-DDE               | ug/L            | 0.11 U   | NS           | NS       | NS          | 0.1 U    | 0.12 U   | NS       |
| Endrin                 | ug/L            | 0.11 U   | NS           | NS       | NS          | 0.1 U    | 0.12 U   | NS       |
| Endosulfan II          | ug/L            | 0.11 U   | NS           | NS       | NS          | 0.1 U    | 0.12 U   | NS       |
| 4,4'-DDD               | ug/L            | 0.11 U   | NS           | NS       | NS          | 0.1 U    | 0.12 U   | NS       |
| Endosulfan sulfate     | ug/L            | 0.11 U   | NS           | NS       | NS          | 0.1 U    | 0.12 U   | NS       |
| 4,4'-DDT               | ug/L            | 0.11 U   | NS           | NS       | NS          | 0.1 U    | 0.12 U   | NS       |
| Methoxychlor           | ug/L            | 0.57 U   | NS           | NS       | NS          | 0.5 U    | 0.6 U    | NS       |
| Endrin ketone          | ug/L            | 0.11 U   | NS           | NS       | NS          | 0.1 U    | 0.12 U   | NS       |
| Endrin aldehyde        | ug/L            | NS       | NS           | NS       | NS          | 0.1 U    | NS       | NS       |
| alpha-Chlordane        | ug/L            | 0.57 U   | NS           | NS       | NS          | 0.06 U   | 0.6 U    | NS       |
| gamma-Chlordane        | ug/L            | 0.57 U   | NS           | NS       | NS          | 0.06 U   | 0.6 U    | NS       |
| Toxaphene              | ug/L            | 1.1 U    | NS           | NS       | NS          | 5 U      | 1.2 U    | NS       |
| Aroclor-1016           | ug/L            | 0.57 U   | NS           | NS       | NS          | 1 U      | 0.6 U    | NS       |
| Aroclor-1221           | ug/L            | 0.57 U   | NS           | NS       | NS          | 2 U      | 0.6 U    | NS       |
| Aroclor-1232           | ug/L            | 0.57 U   | NS           | NS       | NS          | 1 U      | 0.6 U    | NS       |
| Aroclor-1242           | ug/L            | 0.57 U   | NS           | NS       | NS          | 1 U      | 0.6 U    | NS       |
| Aroclor-1248           | ug/L            | 0.57 U   | NS           | NS       | NS          | 1 U      | 0.6 U    | NS       |
| Aroclor-1254           | ug/L            | 1.1 U    | NS           | NS       | NS          | 1 U      | 1.2 U    | NS       |
| Aroclor-1260           | ug/L            | 1.1 U    | NS           | NS       | NS          | 1 U      | 1.2 U    | NS       |
| <b>HERBICIDES</b>      |                 |          |              |          |             |          |          |          |
| 2,4-D                  | ug/L            | 1 U      | NS           | 1 U      | NS          | 1 U      | 1.2 U    | NS       |
| 2,4-DB                 | ug/L            | 1 U      | NS           | 1 U      | NS          | 1 U      | 1.2 U    | NS       |
| 2,4,5-T                | ug/L            | 0.1 U    | NS           | 0.1 U    | NS          | 0.1 U    | 0.1 U    | NS       |
| 2,4,5-TP (Silvex)      | ug/L            | 0.1 U    | NS           | 0.1 U    | NS          | 0.1 U    | 0.1 U    | NS       |
| Delapone               | ug/L            | 2.4 U    | NS           | 2.3 U    | NS          | 2.3 U    | 2.9 U    | NS       |
| Dicamba                | ug/L            | 0.1 U    | NS           | 0.1 U    | NS          | 0.1 U    | 0.1 U    | NS       |
| Dichloroprop           | ug/L            | 1 U      | NS           | 1 U      | NS          | 1 U      | 1.2 U    | NS       |
| Dinoseb                | ug/L            | 0.5 U    | NS           | 0.5 U    | NS          | 0.5 U    | 0.6 U    | NS       |
| MCPA                   | ug/L            | 100 U    | NS           | 100 U    | NS          | 100 U    | 120 U    | NS       |
| MCPP                   | ug/L            | 100 U    | NS           | 100 U    | NS          | 100 U    | 120 U    | NS       |
| <b>METALS</b>          |                 |          |              |          |             |          |          |          |
| Aluminum               | ug/L            | 8250 J   | 24.4 U       | 7310 J   | 24.5 U      | 253      | 23200    | 24.5 U   |
| Antimony               | ug/L            | 55.9 U   | J            | 55.9 U   | J           | 53.2 U   | 53.2 U   | 53.1 U   |
| Arsenic                | ug/L            | 3.5 U    |              | 3.5 U    |             | 3.5 U    | 1.4 UJ   | 4.3 J    |
| Barium                 | ug/L            | 225      | 51.9 R       | 191 J    | 45.7 R      | 82.5 J   | 8.6 J    | 318      |
| Beryllium              | ug/L            | 2.7 R    | 2.5 R        | 2.7 R    | 2.5 R       | 0.9 U    | 3.2 R    | 1.2 R    |
| Cadmium                | ug/L            | 2.9 U    | 3 U          | 2.9 U    | 3 U         | 2.9 U    | 5.4      | 3 U      |
| Calcium                | ug/L            | 352000 J | 108000       | 268000 J | 114000      | 122000   | 41100    | 14800    |
| Chromium               | ug/L            | 10.3     | 6.2 U        | 12       | 6.2 U       | 2.7 UJ   | 34.9     | 6.2 U    |
| Cobalt                 | ug/L            | 20 U     | 20.3 U       | 20 U     | 20.4 U      | 5.8 U    | 20.4 U   | 20.4 U   |
| Copper                 | ug/L            | 14.8 U   | 10.1 U       | 14.9 J   | 10.2 U      | 4.7 U    | 22.5 J   | 10.1 U   |
| Iron                   | ug/L            | 10800 J  | 6.9 U        | 11300 J  | 7 U         | 395      | 33800    | 7 U      |
| Lead                   | ug/L            | 8.2      | 1.2 U        | 7.4      | 1.2 U       | 0.79 U   | 5        | 1.2 U    |
| Magnesium              | ug/L            | 32100    | 20200        | 26300 J  | 20500       | 17400    | 13300    | 4890 J   |
| Manganese              | ug/L            | 2200     | 132          | 1690 J   | 127         | 135      | 952      | 110      |
| Mercury                | ug/L            | 0.16 R   | 0.11 R       | 0.14 R   | 0.1 R       | 0.08 UJ  | 0.1 R    | 0.12 R   |
| Nickel                 | ug/L            | 17.6 J   | 14.7 U       | 18 J     | 14.7 U      | 7.8 UJ   | 49.7     | 14.7 U   |
| Potassium              | ug/L            | 8910     | 7980         | 9780     | 7210        | 1270 J   | 8230     | 2780 J   |
| Selenium               | ug/L            | 1 U      | 1 U          | 1 U      | 1 U         | 0.99 UJ  | 1.3 U    | 1 U      |
| Silver                 | ug/L            | 9.1 U    | 4.3 R        | 8.1 U    | 3.4 U       | 5.5 U    | 3.4 U    | 3.4 U    |
| Sodium                 | ug/L            | 24800 J  | 31200        | 36800 J  | 25100       | 18200    | 130000   | 110000   |
| Thallium               | ug/L            | 3.2 U    | 3.2 U        | 3.2 U    | 3.2 U       | 2.8 U    | 3.2 U    | 3.2 U    |
| Vanadium               | ug/L            | 30.5 U   | 9.4 U        | 30.5 U   | 9.5 U       | 8.8 UJ   | 32.7 J   | 9.4 U    |
| Zinc                   | ug/L            | 51.9     | 8.4 U        | 47.8 R   | 8.5 U       | 13.1 R   | 72.7 R   | 8.5 U    |
| Cyanide                | ug/L            | 10 U     | J            | NS       | 10 U        | J        | NS       | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | PHASE II | PHASE I    | PHASE I  | PHASE I  | PHASE II | PHASE I  | PHASE I  |
|----------------------------|----------|----------|------------|----------|----------|----------|----------|----------|
|                            | LOCATION | WATER    | WATER      | WATER    | WATER    | WATER    | WATER    | WATER    |
|                            | DATE     | MW-36D   | MW-36      | MW-36    | MW-36    | MW-36    | MW-37    | MW-37    |
|                            | ES ID    | 07/03/93 | 01/14/92   | 01/14/92 | 01/14/92 | 07/03/93 | 01/10/92 | 01/10/92 |
| LAB ID                     | MW36D    | MW-36    | MW-36RE(4) | MW-36RE  | MW36     | MW-37    | MW-37    |          |
| UNITS                      | 18267    | 18264    | 18264      | 18269    | 18268    | 18268    | 18268    |          |
| Chloromethane              | ug/L     | NS       | 10 U       | NS       | NS       | NS       | 10 U     | NS       |
| Bromomethane               | ug/L     | NS       | 10 U       | NS       | NS       | NS       | 10 U     | NS       |
| Vinyl Chloride             | ug/L     | NS       | 10 U       | NS       | NS       | NS       | 10 U     | NS       |
| Chloroethane               | ug/L     | NS       | 10 U       | NS       | NS       | NS       | 10 U     | NS       |
| Methylene Chloride         | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Acetone                    | ug/L     | NS       | 10 U       | NS       | NS       | NS       | 10 U     | NS       |
| Carbon Disulfide           | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| 1,1-Dichloroethene         | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| 1,1-Dichloroethane         | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| 1,2-Dichloroethene (total) | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Chloroform                 | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| 1,2-Dichloroethane         | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| 2-Butanone                 | ug/L     | NS       | 10 U       | NS       | NS       | NS       | 10 U     | NS       |
| 1,1,1-Trichloroethane      | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Carbon Tetrachloride       | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Vinyl Acetate              | ug/L     | NS       | 10 U       | NS       | NS       | NS       | 10 U     | NS       |
| Bromodichloromethane       | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| 1,2-Dichloropropane        | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| cis-1,3-Dichloropropene    | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Trichloroethene            | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Dibromochloromethane       | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| 1,1,2-Trichloroethane      | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Benzene                    | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| trans-1,3-Dichloropropene  | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Bromoform                  | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| 4-Methyl-2-Pentanone       | ug/L     | NS       | 10 U       | NS       | NS       | NS       | 10 U     | NS       |
| 2-Hexanone                 | ug/L     | NS       | 10 U       | NS       | NS       | NS       | 10 U     | NS       |
| Tetrachloroethene          | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| 1,1,2,2-Tetrachloroethane  | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Toluene                    | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Chlorobenzene              | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Ethylbenzene               | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Styrene                    | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |
| Xylene (total)             | ug/L     | NS       | 5 U        | NS       | NS       | NS       | 5 U      | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION             | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER |
|-----------------------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|
| DATE                        | MW36D          | MW-36         | MW-36         | MW-36         | MW36           | MW-37         | MW-37         |
| ES ID                       | MW36D          | MW-36         | MW-36RE(4)    | MW-36F(4)     | MW36           | MW-37         | MW-37         |
| LAB ID                      | 18267          | 18264         | 18264         | 18269         | 18268          | 18264         | 18268         |
| COMPOUND                    | UNITS          |               |               |               |                |               |               |
| VOC's (64-2)                |                |               |               |               |                |               |               |
| Dichlorofluoromethane       | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Chloromethane               | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Vinyl Chloride              | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Bromomethane                | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Chloroethane                | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Trichlorofluoroethane       | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,1-Dichloroethene          | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Acetone                     | ug/L           | 8 U           | NS            | NS            | NS             | 8 U           | NS            |
| Carbon Disulfide            | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Methylene Chloride          | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| trans-1,2-Dichloroethene    | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,1-Dichloroethane          | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 2,2-Dichloropropane         | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| cis-1,2-Dichloroethene      | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 2-Butanone                  | ug/L           | 8 U           | NS            | NS            | NS             | 8 U           | NS            |
| Bromochloromethane          | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Chloroform                  | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,1,1-Trichloroethane       | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Carbon Tetrachloride        | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,1-Dichloropropane         | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Benzene                     | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,2-Dichloroethane          | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Trichloroethane             | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,2-Dichloropropane         | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Dibromomethane              | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Bromodichloromethane        | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| cis-1,3-Dichloropropane     | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 4-Methyl-2-Pentanone        | ug/L           | 8 U           | NS            | NS            | NS             | 8 U           | NS            |
| Toluene                     | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| trans-1,3-Dichloropropane   | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,1,2-Trichloroethane       | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Tetrachloroethene           | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,3-Dichloropropane         | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 2-Hexanone                  | ug/L           | 8 U           | NS            | NS            | NS             | 8 U           | NS            |
| Dibromochloromethane        | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,2-Dibromoethane           | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Chlorobenzene               | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,1,1,2-Tetrachloroethane   | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Ethylbenzene                | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Styrene                     | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Bromoform                   | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Isopropylbenzene            | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Bromobenzene                | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,1,2,2-Tetrachloroethane   | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,2,3-Trichloropropane      | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| n-Propylbenzene             | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 2-Chlorotoluene             | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 4-Chlorotoluene             | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,3,5-Trimethylbenzene      | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| tert-Butylbenzene           | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,2,4-Trimethylbenzene      | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| sec-Butylbenzene            | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,3-Dichlorobenzene         | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,4-Dichlorobenzene         | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| p-Isopropyltoluene          | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,2-Dichlorobenzene         | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| n-Butylbenzene              | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,2-Dibromo-3-Chloropropane | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,2,4-Trichlorobenzene      | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Hexachlorobutadiene         | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Naphthalene                 | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| 1,2,3-Trichlorobenzene      | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |
| Xylene (total)              | ug/L           | 0.8 U         | NS            | NS            | NS             | 0.8 U         | NS            |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX LOCATION DATE ES ID LAB ID UNITS | PHASE II                          | PHASE I                           | PHASE I                                | PHASE I                               | PHASE II                        | PHASE I                           | PHASE I                           |
|------------------------------|---|-----------------------------------|-----------------------------------|--|---------------------------------------|---------------------------------|-----------------------------------|-----------------------------------|
|                              |   | WATER MW36D 07/03/93 MW38D 182267 | WATER MW-36 01/14/92 MW-36 182804 | WATER MW-36 01/14/92 MW-36RE(4) 182604 | WATER MW-36 01/14/92 MW-36F(4) 182609 | WATER MW36 07/03/93 MW36 182626 | WATER MW-37 01/10/92 MW-37 182646 | WATER MW-37 01/10/92 MW-37 182268 |
| SEMIVOLATILES                |   |                                   |                                   |  |                                       |                                 |                                   |                                   |
| Phenol                       | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| bis(2-Chloroethyl) ether     | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2-Chlorophenol               | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 1,3-Dichlorobenzene          | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 1,4-Dichlorobenzene          | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Benzyl Alcohol               | ug/L                                    | NS                                | 12 U                              | NS                                     | NS                                    | NS                              | NS                                | 11 U                              |
| 1,2-Dichlorobenzene          | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2-Methylphenol               | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| bis(2-Chloroisopropyl) ether | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 4-Methylphenol               | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| N-Nitrosodimethylamine       | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Hexachloroethane             | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Nitrobenzene                 | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Isophorone                   | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2-Nitrophenol                | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2,4-Dimethylphenol           | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Benzoic acid                 | ug/L                                    | NS                                | 80 U                              | NS                                     | NS                                    | NS                              | NS                                | 55 U                              |
| bis(2-Chloroethoxy) methane  | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2,4-Dichlorophenol           | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 1,2,4-Trichlorobenzene       | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Naphthalene                  | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 4-Chloroaniline              | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Hexachlorobutadiene          | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 4-Chloro-3-methylphenol      | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2-Methylnaphthalene          | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Hexachlorocyclopentadiene    | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2,4,6-Trichlorophenol        | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2,4,8-Trichlorophenol        | ug/L                                    | 25 U                              | 80 U                              | NS                                     | NS                                    | 25 U                            | NS                                | 55 U                              |
| 2-Chloronaphthalene          | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2-Nitroaniline               | ug/L                                    | 25 U                              | 80 U                              | NS                                     | NS                                    | 25 U                            | NS                                | 55 U                              |
| Dimethylphthalate            | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Acenaphthylene               | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2,6-Dinitrotoluene           | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 3-Nitroaniline               | ug/L                                    | 25 U                              | 80 U                              | NS                                     | NS                                    | 25 U                            | NS                                | 55 U                              |
| Acenaphthene                 | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2,4-Dinitrophenol            | ug/L                                    | 25 U                              | 80 U                              | NS                                     | NS                                    | 25 U                            | NS                                | 55 U                              |
| 4-Nitrophenol                | ug/L                                    | 25 U                              | 80 U                              | NS                                     | NS                                    | 25 U                            | NS                                | 55 U                              |
| Dibenzofuran                 | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 2,4-Dinitrotoluene           | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Diethylphthalate             | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 4-Chlorophenylphenylether    | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Fluorene                     | ug/L                                    | 25 U                              | 80 U                              | NS                                     | NS                                    | 25 U                            | NS                                | 55 U                              |
| 4-Nitroaniline               | ug/L                                    | 25 U                              | 80 U                              | NS                                     | NS                                    | 25 U                            | NS                                | 55 U                              |
| 4,6-Dinitro-2-methylphenol   | ug/L                                    | 25 U                              | 80 U                              | NS                                     | NS                                    | 25 U                            | NS                                | 55 U                              |
| N-Nitrosodimethylamine (1)   | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 4-Bromophenylphenylether     | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Hexachlorobenzene            | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Pentachlorophenol            | ug/L                                    | 25 U                              | 80 U                              | NS                                     | NS                                    | 25 U                            | NS                                | 55 U                              |
| Phenanthrene                 | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Anthracene                   | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Carbazole                    | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Di-n-butylphthalate          | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Fluoranthene                 | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Pyrene                       | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Bis(2-ethylhexyl)phthalate   | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| 3,3'-Dichlorobenzidine       | ug/L                                    | 10 U                              | 24 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 22 U                              |
| Benzo(a)anthracene           | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Chrysene                     | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| bis(2-Ethylhexyl)phthalate   | ug/L                                    | 71 B                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Di-n-octylphthalate          | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Benzo(b)fluoranthene         | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Benzo(k)fluoranthene         | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Benzo(a)pyrene               | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Indeno(1,2,3-cd)pyrene       | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Dibenz(ghi)anthracene        | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |
| Benzo(ghi)perylene           | ug/L                                    | 10 U                              | 12 U                              | NS                                     | NS                                    | 10 U                            | NS                                | 11 U                              |

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GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID COMPOUND | PHASE II WATER MW36D 07/03/93 MW36D 188287 | PHASE I WATER MW-36 01/14/82 MW-36 182604 | PHASE I WATER MW-36 01/14/82 MW-36RE(4) 182604 | PHASE I WATER MW-36 01/14/82 MW-36RE 182609 | PHASE II WATER MW36 07/03/93 MW36 188288 | PHASE I WATER MW-37 01/10/82 MW-37 182646 | PHASE I WATER MW-37 01/10/82 MW-37 182266 |  |
|--|--|---|--|---|--|---|---|--|
| <b>PESTICIDES/PCBS</b>                     |  |   |  |   |  |   |   |  |
| alpha-BHC                                  | ug/L 0.05 U                                | 0.054 U J                                 | 0.052 U  | NS  | 0.053 U                                  | NS  | 0.061 U                                   |  |
| beta-BHC                                   | ug/L 0.05 U                                | 0.054 U J                                 | 0.052 U  | NS  | 0.053 U                                  | NS  | 0.061 U                                   |  |
| delta-BHC                                  | ug/L 0.05 U                                | 0.054 U J                                 | 0.052 U  | NS  | 0.053 U                                  | NS  | 0.061 U                                   |  |
| gamma-BHC (Lindane)                        | ug/L 0.05 U                                | 0.054 U J                                 | 0.052 U  | NS  | 0.053 U                                  | NS  | 0.061 U                                   |  |
| Heptachlor                                 | ug/L 0.05 U                                | 0.054 U J                                 | 0.052 U  | NS  | 0.053 U                                  | NS  | 0.061 U                                   |  |
| Aldrin                                     | ug/L 0.05 U                                | 0.054 U J                                 | 0.052 U  | NS  | 0.053 U                                  | NS  | 0.061 U                                   |  |
| Heptachlor epoxide                         | ug/L 0.05 U                                | 0.054 U J                                 | 0.052 U  | NS  | 0.053 U                                  | NS  | 0.061 U                                   |  |
| Endosulfan I                               | ug/L 0.05 U                                | 0.054 U J                                 | 0.052 U  | NS  | 0.053 U                                  | NS  | 0.061 U                                   |  |
| Dieldrin                                   | ug/L 0.1 U                                 | 0.11 U J                                  | 0.1 U  | NS  | 0.11 U                                   | NS  | 0.12 U                                    |  |
| 4,4'-DDE                                   | ug/L 0.1 U                                 | 0.11 U J                                  | 0.1 U  | NS  | 0.11 U                                   | NS  | 0.12 U                                    |  |
| Endrin                                     | ug/L 0.1 U                                 | 0.11 U J                                  | 0.1 U  | NS  | 0.11 U                                   | NS  | 0.12 U                                    |  |
| Endosulfan II                              | ug/L 0.1 U                                 | 0.11 U J                                  | 0.1 U  | NS  | 0.11 U                                   | NS  | 0.12 U                                    |  |
| 4,4'-DDD                                   | ug/L 0.1 U                                 | 0.11 U J                                  | 0.1 U  | NS  | 0.11 U                                   | NS  | 0.12 U                                    |  |
| Endosulfan sulfate                         | ug/L 0.1 U                                 | 0.11 U J                                  | 0.1 U  | NS  | 0.11 U                                   | NS  | 0.12 U                                    |  |
| 4,4'-DDT                                   | ug/L 0.1 U                                 | 0.11 U J                                  | 0.1 U  | NS  | 0.11 U                                   | NS  | 0.12 U                                    |  |
| Methoxychlor                               | ug/L 0.5 U                                 | 0.54 U J                                  | 0.52 U   | NS  | 0.53 U                                   | NS  | 0.61 U                                    |  |
| Endrin ketone                              | ug/L 0.1 U                                 | 0.11 U J                                  | 0.1 U  | NS  | 0.11 U                                   | NS  | 0.12 U                                    |  |
| Endrin aldehyde                            | ug/L 0.1 U                                 | NS  | NS   | NS  | 0.11 U                                   | NS  | NS  |  |
| alpha-Chlordane                            | ug/L 0.05 U                                | 0.54 U J                                  | 0.52 U   | NS  | 0.053 U                                  | NS  | 0.61 U                                    |  |
| gamma-Chlordane                            | ug/L 0.05 U                                | 0.54 U J                                  | 0.52 U   | NS  | 0.053 U                                  | NS  | 0.61 U                                    |  |
| Toxaphene                                  | ug/L 5 U                                   | 1.1 U J                                   | 1 U  | NS  | 5.3 U                                    | NS  | 1.2 U                                     |  |
| Aroclor-1016                               | ug/L 1 U                                   | 0.54 U J                                  | 0.52 U   | NS  | 1.1 U                                    | NS  | 0.61 U                                    |  |
| Aroclor-1221                               | ug/L 2 U                                   | 0.54 U J                                  | 0.52 U   | NS  | 2.1 U                                    | NS  | 0.61 U                                    |  |
| Aroclor-1232                               | ug/L 1 U                                   | 0.54 U J                                  | 0.52 U   | NS  | 1.1 U                                    | NS  | 0.61 U                                    |  |
| Aroclor-1242                               | ug/L 1 U                                   | 0.54 U J                                  | 0.52 U   | NS  | 1.1 U                                    | NS  | 0.61 U                                    |  |
| Aroclor-1249                               | ug/L 1 U                                   | 0.54 U J                                  | 0.52 U   | NS  | 1.1 U                                    | NS  | 0.61 U                                    |  |
| Aroclor-1254                               | ug/L 1 U                                   | 1.1 U J                                   | 1 U  | NS  | 1.1 U                                    | NS  | 1.2 U                                     |  |
| Aroclor-1260                               | ug/L 1 U                                   | 1.1 U J                                   | 1 U  | NS  | 1.1 U                                    | NS  | 1.2 U                                     |  |
| <b>HERBICIDES</b>                          |  |   |  |   |  |   |   |  |
| 2,4-D                                      | ug/L 1 U                                   | 1 U                                       | NS   | NS  | 1 U                                      | NS  | 1 U                                       |  |
| 2,4-DB                                     | ug/L 1 U                                   | 1 U                                       | NS   | NS  | 1 U                                      | NS  | 1 U                                       |  |
| 2,4,6-T                                    | ug/L 0.1 U                                 | 0.1 U                                     | NS   | NS  | 0.1 U                                    | NS  | 0.1 U                                     |  |
| 2,4,6-TP (Silvex)                          | ug/L 0.1 U                                 | 0.1 U                                     | NS   | NS  | 0.1 U                                    | NS  | 0.1 U                                     |  |
| Dalapon                                    | ug/L 2.5 U                                 | 2.4 U                                     | NS   | NS  | 2.3 U                                    | NS  | 2.4 U                                     |  |
| Dicamba                                    | ug/L 0.1 U                                 | 0.1 U                                     | NS   | NS  | 0.1 U                                    | NS  | 0.1 U                                     |  |
| Dichloroprop                               | ug/L 1 U                                   | 1 U                                       | NS   | NS  | 1 U                                      | NS  | 1 U                                       |  |
| Dihoseb                                    | ug/L 0.5 U                                 | 0.5 U                                     | NS   | NS  | 0.5 U                                    | NS  | 0.5 U                                     |  |
| MCPA                                       | ug/L 100 U                                 | 100 U                                     | NS   | NS  | 100 U                                    | NS  | 100 U                                     |  |
| MCPP                                       | ug/L 100 U                                 | 100 U                                     | NS   | NS  | 100 U                                    | NS  | 100 U                                     |  |
| <b>METALS</b>                              |  |   |  |   |  |   |   |  |
| Aluminum                                   | ug/L 72.2 U                                | 16000                                     | NS   | 24.4 U                                      | 1090                                     | NS  | 19100                                     |  |
| Antimony                                   | ug/L 49.7 UJ                               | 53.1 U                                    | NS   | 52.9 U                                      | 49.7 UJ                                  | NS  | 55.9 U J                                  |  |
| Arsenic                                    | ug/L 3.8 U                                 | 3.8 U                                     | NS   | 3.8 U                                       | 1.4 UJ                                   | NS  | 3.8 U                                     |  |
| Barium                                     | ug/L 108 J                                 | 167 J                                     | NS   | 69.2 R                                      | 78.6 J                                   | NS  | 329                                       |  |
| Beryllium                                  | ug/L 0.89 U                                | 2.6 R                                     | NS   | 1.4 R                                       | 0.9 U                                    | NS  | 3.8 R                                     |  |
| Cadmium                                    | ug/L 2.9 U                                 | 3.8 J                                     | NS   | 3 U   | 2.9 U                                    | NS  | 2.9 U                                     |  |
| Calcium                                    | ug/L 29900                                 | 182000                                    | NS   | 117000                                      | 136000                                   | NS  | 279000 J                                  |  |
| Chromium                                   | ug/L 2.7 UJ                                | 27.1                                      | NS   | 6.1 U                                       | 2.7 UJ                                   | NS  | 29.9                                      |  |
| Cobalt                                     | ug/L 5.5 U                                 | 20.4 U                                    | NS   | 20.3 U                                      | 5.5 U                                    | NS  | 26 J                                      |  |
| Copper                                     | ug/L 4.7 U                                 | 19.8 J                                    | NS   | 10.1 U                                      | 4.7 U                                    | NS  | 26.3                                      |  |
| Iron                                       | ug/L 40.9 J                                | 29000                                     | NS   | 6.9 U                                       | 1290                                     | NS  | 27500                                     |  |
| Lead                                       | ug/L 0.8 U                                 | 6   | NS   | 1.2 U                                       | 0.8 U                                    | NS  | 6   |  |
| Magnesium                                  | ug/L 8220                                  | 31000                                     | NS   | 17400                                       | 18300                                    | NS  | 28600                                     |  |
| Manganese                                  | ug/L 61.8                                  | 856                                       | NS   | 44.9  | 139                                      | NS  | 2190                                      |  |
| Mercury                                    | ug/L 0.14 J                                | 0.1 R                                     | NS   | 0.11 R                                      | 0.09 UJ                                  | NS  | 0.16 R                                    |  |
| Nickel                                     | ug/L 7.5 UJ                                | 39.1 J                                    | NS   | 14.7 U                                      | 7.5 UJ                                   | NS  | 36.9 J                                    |  |
| Potassium                                  | ug/L 2680 J                                | 3310 J                                    | NS   | 1620 J                                      | 2110 J                                   | NS  | 4470 J                                    |  |
| Selenium                                   | ug/L 1.5 UJ                                | 1.3 U                                     | NS   | 1 U   | 1.8 J                                    | NS  | 1 U                                       |  |
| Silver                                     | ug/L 5.5 U                                 | 3.4 U                                     | NS   | 3.4 U                                       | 5.5 U                                    | NS  | 9.1 U                                     |  |
| Sodium                                     | ug/L 81500                                 | 21300                                     | NS   | 18900                                       | 21300                                    | NS  | 11900 J                                   |  |
| Thallium                                   | ug/L 2.6 U                                 | 3.2 U                                     | NS   | 3.2 U                                       | 2.6 U                                    | NS  | 3.2 U                                     |  |
| Vanadium                                   | ug/L 6.6 UJ                                | 23.2 J                                    | NS   | 8.4 U                                       | 6.8 UJ                                   | NS  | 30.6 U                                    |  |
| Zinc                                       | ug/L 3.1 J                                 | 120                                       | NS   | 8.4 U                                       | 9.3 J                                    | NS  | 58.8                                      |  |
| Cyanide                                    | ug/L 10 UJ                                 | 10 U                                      | NS   | NS  | 10 UJ                                    | NS  | 10 U J                                    |  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER |    |
|----------------------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----|
| DATE                       | MW-37         | MW37           | MW-38D        | MW-38D        | MW38D          | MW-38         | MW-38         |    |
| ES ID                      | 01/10/92      | 06/24/93       | 01/08/92      | 01/08/92      | 07/03/93       | 01/14/92      | 01/14/92      |    |
| LAB ID                     | MW-37File     | MW37           | MW-38D        | MW-38DFI      | MW38D          | MW-38         | MW-38File     |    |
| COMPOUND                   | 182281        | 187342         | 182184        | 182197        | 186259         | 182605        | 182610        |    |
| UNITS                      |               |                |               |               |                |               |               |    |
| Chloromethane              | ug/L          | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Bromomethane               | ug/L          | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Vinyl Chloride             | ug/L          | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Chloroethane               | ug/L          | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Methylene Chloride         | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Acetone                    | ug/L          | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Carbon Disulfide           | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,1-Dichloroethane         | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,1-Dichloroethane         | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,2-Dichloroethane (total) | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Chloroform                 | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,2-Dichloroethane         | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 2-Butanone                 | ug/L          | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| 1,1,1-Trichloroethane      | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Carbon Tetrachloride       | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Vinyl Acetate              | ug/L          | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Bromodichloromethane       | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,2-Dichloropropane        | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| cis-1,3-Dichloropropene    | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Trichloroethane            | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Dibromochloromethane       | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,1,2-Trichloroethane      | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Benzene                    | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| trans-1,3-Dichloropropene  | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Bromoform                  | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 4-Methyl-2-Pentanone       | ug/L          | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| 2-Hexanone                 | ug/L          | NS             | NS            | 10 U          | NS             | NS            | 10 U          | NS |
| Tetrachloroethane          | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| 1,1,2,2-Tetrachloroethane  | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Toluene                    | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Chlorobenzene              | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Ethylbenzene               | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Styrene                    | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |
| Xylene (total)             | ug/L          | NS             | NS            | 5 U           | NS             | NS            | 5 U           | NS |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | PHASE I WATER MW-37 01/10/92 MW-37Filt 152291 | PHASE II WATER MW37 06/24/93 MW37 157342 | PHASE I WATER MW-38D 01/08/92 MW-38D 152154 | PHASE I WATER MW-38D 01/08/92 MW-38DFil 152197 | PHASE II WATER MW38D 07/03/93 MW38D 155259 | PHASE I WATER MW-39 01/14/92 MW-39 152505 | PHASE I WATER MW-39 01/14/92 MW-39Filt 152510 |
|-----------------------------------|---|--|---|--|--|---|---|
| COMPOUND                          | UNITS   |  |   |  |  |   |   |
| VOC's (24)                        |   |  |   |  |  |   |   |
| Dichlorodifluoromethane           | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Chloromethane                     | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Vinyl Chloride                    | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Bromomethane                      | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Chloroethane                      | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Trichlorofluoromethane            | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,1-Dichloroethane                | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Acetone                           | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Carbon Disulfide                  | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Methylene Chloride                | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| trans-1,2-Dichloroethene          | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,1-Dichloroethane                | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 2,2-Dichloropropane               | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| cis-1,2-Dichloroethene            | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 2-Butanone                        | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Bromochloromethane                | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Chloroform                        | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,1,1-Trichloroethane             | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Carbon Tetrachloride              | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,1-Dichloropropane               | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Benzene                           | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,2-Dichloroethane                | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Trichloroethene                   | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,2-Dichloropropane               | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Dibromomethane                    | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Bromodichloromethane              | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| cis-1,2-Dichloropropene           | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 4-Methyl-2-Pentanone              | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Toluene                           | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| trans-1,3-Dichloropropene         | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,1,2-Trichloroethane             | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Tetrachloroethene                 | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,3-Dichloropropane               | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 2-Hexanone                        | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Dibromochloromethane              | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,2-Dibromoethane                 | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Chlorobenzene                     | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,1,1,2-Tetrachloroethane         | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Ethylbenzene                      | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Styrene                           | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Bromoform                         | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Isopropylbenzene                  | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Bromobenzene                      | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,1,2,2-Tetrachloroethane         | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,2,3-Trichloropropane            | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| n-Propylbenzene                   | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 2-Chlorotoluene                   | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 4-Chlorotoluene                   | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,3,5-Trimethylbenzene            | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| tert-Butylbenzene                 | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,2,4-Trimethylbenzene            | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| sec-Butylbenzene                  | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,3-Dichlorobenzene               | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,4-Dichlorobenzene               | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| p-Isopropyltoluene                | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,2-Dichlorobenzene               | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| n-Butylbenzene                    | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,2-Dibromo-3-Chloropropane       | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,2,4-Trichlorobenzene            | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Hexachlorobutadiene               | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Naphthalene                       | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| 1,2,3-Trichlorobenzene            | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |
| Xylene (total)                    | ug/L  | NS                                       | 0.5 U                                       | NS   | NS   | 0.5 U                                     | NS  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | DATE  | ES ID  | LAB ID | PHASE I WATER                   | PHASE II WATER   | PHASE I WATER                | PHASE I WATER                  | PHASE II WATER             | PHASE I WATER              | PHASE I WATER                        |
|------------------------------|-------|--------|--------|---------------------------------|------------------|------------------------------|--------------------------------|----------------------------|----------------------------|--------------------------------------|
| COMPOUND                     | UNITS | 182281 | 167342 | MW-37<br>01/10/92<br>MW-377File | MW37<br>06/24/93 | MW-38D<br>01/06/92<br>MW-38D | MW-38D<br>01/06/92<br>MW-38DFI | MW38D<br>07/03/93<br>MW38D | MW-38<br>01/14/92<br>MW-38 | MW-38FFile<br>01/14/92<br>MW-38FFile |
| SEMIVOLATILES                |       |        |        |                                 |                  |                              |                                |                            |                            |                                      |
| Phenol                       | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| bis(2-Chloroethyl) ether     | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2-Chlorophenol               | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 1,3-Dichlorobenzene          | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 1,4-Dichlorobenzene          | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Benzyl Alcohol               | ug/L  | NS     | NS     |                                 |                  | 12 U                         | NS                             | NS                         | 11 U                       | NS                                   |
| 1,2-Dichlorobenzene          | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2-Methylphenol               | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| bis(2-Chloroisopropyl) ether | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 4-Methylphenol               | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| N-Nitroso-di-n-propylamine   | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Hexachloroethane             | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Nitrobenzene                 | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Isophorone                   | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2-Nitrophenol                | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2,4-Dimethylphenol           | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Benzole acid                 | ug/L  | NS     | NS     |                                 |                  | 80 U                         | NS                             | NS                         | 66 U                       | NS                                   |
| bis(2-Chloroethoxy) methane  | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2,4-Dichlorophenol           | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 1,2,4-Trichlorobenzene       | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Naphthalene                  | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 4-Chloroaniline              | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Hexachlorobutadiene          | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 4-Chloro-3-methylphenol      | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2-Methylnaphthalene          | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Hexachlorocyclopentadiene    | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2,4,6-Trichlorophenol        | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2,4,6-Trichlorophenol        | ug/L  | NS     | 25 U   |                                 |                  | 80 U                         | NS                             | 25 U                       | 66 U                       | NS                                   |
| 2-Chloronaphthalene          | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2-Nitroaniline               | ug/L  | NS     | 25 U   |                                 |                  | 80 U                         | NS                             | 25 U                       | 66 U                       | NS                                   |
| Dimethylphthalate            | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Acenaphthylene               | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2,4-Dinitrotoluene           | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 3-Nitroaniline               | ug/L  | NS     | 25 U   |                                 |                  | 80 U                         | NS                             | 25 U                       | 66 U                       | NS                                   |
| Acenaphthene                 | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2,4-Dinitrophenol            | ug/L  | NS     | 25 U   |                                 |                  | 80 U                         | NS                             | 25 U                       | 66 U                       | NS                                   |
| 4-Nitrophenol                | ug/L  | NS     | 25 U   |                                 |                  | 80 U                         | NS                             | 25 U                       | 66 U                       | NS                                   |
| Dibenzofuran                 | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 2,4-Dinitrotoluene           | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Dialkylphthalate             | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 4-Chlorophenyl-phenylether   | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Fluorene                     | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 4-Nitroaniline               | ug/L  | NS     | 25 U   |                                 |                  | 80 U                         | NS                             | 25 U                       | 66 U                       | NS                                   |
| 4,8-Dinitro-2-methylphenol   | ug/L  | NS     | 25 U   |                                 |                  | 80 U                         | NS                             | 25 U                       | 66 U                       | NS                                   |
| N-Nitrosodiphenylamine (1)   | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 4-Bromophenyl-phenylether    | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Hexachlorobenzene            | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Pentachlorophenol            | ug/L  | NS     | 25 U   |                                 |                  | 80 U                         | NS                             | 25 U                       | 66 U                       | NS                                   |
| Phenanthrene                 | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Anthracene                   | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Carbazole                    | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Di-n-butylphthalate          | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Fluoranthene                 | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Pyrene                       | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Butylbenzylphthalate         | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| 3,3'-Dichlorobenzidine       | ug/L  | NS     | 10 U   |                                 |                  | 24 U                         | NS                             | 10 U                       | 22 U                       | NS                                   |
| Benzo(a)anthracene           | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Chrysene                     | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| bis(2-Ethylhexyl)phthalate   | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Di-n-octylphthalate          | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Benzo(b)fluoranthene         | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Benzo(k)fluoranthene         | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Benzo(a)pyrene               | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Indeno(1,2,3-cd)pyrene       | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Dibenz(a,h)anthracene        | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |
| Benzo(g,h,i)perylene         | ug/L  | NS     | 10 U   |                                 |                  | 12 U                         | NS                             | 10 U                       | 11 U                       | NS                                   |

SENECA ARMY DEP OT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | PHASE I WATER MW-37 | PHASE II WATER MW37 | PHASE I WATER MW-38D | PHASE I WATER MW-38D | PHASE II WATER MW38D | PHASE I WATER MW-38 | PHASE I WATER MW-38 |
|------------------------|---------------------|---------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
| DATE                   | 01/10/92            | 06/24/93            | 01/08/92             | 01/08/92             | 07/03/93             | 01/14/92            | 01/14/92            |
| ES ID                  | MW-37FRe            | MW37                | MW-38D               | MW-38DFI             | MW38D                | MW-38               | MW-38FRe            |
| LAB ID                 | 152291              | 157342              | 152154               | 152197               | 155259               | 152505              | 152510              |
| COMPOUND               | UNITS               |                     |                      |                      |                      |                     |                     |
| <b>PESTICIDES/PCBS</b> |                     |                     |                      |                      |                      |                     |                     |
| alpha-BHC              | ug/L                | NS                  | 0.052 U              | 0.05 U               | NS                   | 0.05 U              | 0.056 U             |
| beta-BHC               | ug/L                | NS                  | 0.052 U              | 0.05 U               | NS                   | 0.05 U              | 0.056 U             |
| delta-BHC              | ug/L                | NS                  | 0.052 U              | 0.05 U               | NS                   | 0.05 U              | 0.056 U             |
| gamma-BHC (Lindane)    | ug/L                | NS                  | 0.052 U              | 0.05 U               | NS                   | 0.05 U              | 0.056 U             |
| Heptachlor             | ug/L                | NS                  | 0.052 U              | 0.05 U               | NS                   | 0.05 U              | 0.056 U             |
| Aldrin                 | ug/L                | NS                  | 0.052 U              | 0.05 U               | NS                   | 0.05 U              | 0.056 U             |
| Heptachlor epoxide     | ug/L                | NS                  | 0.052 U              | 0.05 U               | NS                   | 0.05 U              | 0.056 U             |
| Endosulfan I           | ug/L                | NS                  | 0.052 U              | 0.05 U               | NS                   | 0.05 U              | 0.056 U             |
| Dieldrin               | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.11 U              |
| 4,4'-DDE               | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.11 U              |
| Endrin                 | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.11 U              |
| Endosulfan II          | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.11 U              |
| 4,4'-DDD               | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.11 U              |
| Endosulfan sulfate     | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.11 U              |
| 4,4'-DDT               | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.11 U              |
| Methoxychlor           | ug/L                | NS                  | 0.52 U               | 0.5 U                | NS                   | 0.5 U               | 0.56 U              |
| Endrin ketone          | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.11 U              |
| Endrin aldehyde        | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.11 U              |
| alpha-Chlordane        | ug/L                | NS                  | 0.052 U              | 0.5 U                | NS                   | 0.05 U              | 0.56 U              |
| gamma-Chlordane        | ug/L                | NS                  | 0.052 U              | 0.5 U                | NS                   | 0.05 U              | 0.56 U              |
| Toxaphene              | ug/L                | NS                  | 5.2 U                | 1 U                  | NS                   | 5 U                 | 1.1 U               |
| Aroclor-1016           | ug/L                | NS                  | 1 U                  | 0.5 U                | NS                   | 1 U                 | 0.56 U              |
| Aroclor-1221           | ug/L                | NS                  | 2.1 U                | 0.5 U                | NS                   | 2 U                 | 0.56 U              |
| Aroclor-1232           | ug/L                | NS                  | 1 U                  | 0.5 U                | NS                   | 1 U                 | 0.56 U              |
| Aroclor-1242           | ug/L                | NS                  | 1 U                  | 0.5 U                | NS                   | 1 U                 | 0.56 U              |
| Aroclor-1248           | ug/L                | NS                  | 1 U                  | 0.5 U                | NS                   | 1 U                 | 0.56 U              |
| Aroclor-1254           | ug/L                | NS                  | 1 U                  | 1 U                  | NS                   | 1 U                 | 1.1 U               |
| Aroclor-1260           | ug/L                | NS                  | 1 U                  | 1 U                  | NS                   | 1 U                 | 1.1 U               |
| <b>HERBICIDES</b>      |                     |                     |                      |                      |                      |                     |                     |
| 2,4-D                  | ug/L                | NS                  | 1 U                  | 1.1 U                | NS                   | 1 U                 | 1 U                 |
| 2,4-DB                 | ug/L                | NS                  | 1 U                  | 1.1 U                | NS                   | 1 U                 | 1 U                 |
| 2,4,5-T                | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.1 U               |
| 2,4,5-TP (Silvex)      | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.1 U               |
| Dalapon                | ug/L                | NS                  | 2.3 U                | 2.6 U                | NS                   | 2.3 U               | 2.4 U               |
| Dicamba                | ug/L                | NS                  | 0.1 U                | 0.1 U                | NS                   | 0.1 U               | 0.1 U               |
| Dichloroprop           | ug/L                | NS                  | 1 U                  | 1.1 U                | NS                   | 1 U                 | 1 U                 |
| Dinoseb                | ug/L                | NS                  | 0.5 U                | 0.5 U                | NS                   | 0.5 U               | 0.5 U               |
| MCPA                   | ug/L                | NS                  | 100 U                | 110 U                | NS                   | 100 U               | 100 U               |
| MCPP                   | ug/L                | NS                  | 100 U                | 110 U                | NS                   | 100 U               | 100 U               |
| <b>METALS</b>          |                     |                     |                      |                      |                      |                     |                     |
| Aluminum               | ug/L                | 24.5 U              | 537                  | 2110                 | 24.4 U               | 72.5 U              | 7930                |
| Antimony               | ug/L                | 53.2 U              | 48.7 UJ              | 55.6 U J             | 52.9 U               | 49.9 UJ             | 53.3 U              |
| Arsenic                | ug/L                | 3.5 U               | 1.4 UJ               | 3.5 U                | 3.8 U                | 1.4 UJ              | 3.5 U               |
| Barium                 | ug/L                | 32.3 R              | 79.6 J               | 187 J                | 105 J                | 115 J               | 80.9 J              |
| Beryllium              | ug/L                | 2.4 R               | 0.89 U               | 2.1 R                | 2.6 R                | 0.9 U               | 2.6 R               |
| Cadmium                | ug/L                | 3 U                 | 2.9 U                | 2.9 U                | 3 U                  | 2.9 U               | 3.1 J               |
| Calcium                | ug/L                | 108000              | 115000               | 123000 J             | 93600                | 93600               | 97900               |
| Chromium               | ug/L                | 6.2 U               | 2.7 UJ               | 6.8 J                | 6.1 U                | 2.7 UJ              | 6.2 U               |
| Cobalt                 | ug/L                | 20.4 U              | 8.5 U                | 19.8 U               | 20.3 U               | 8.5 U               | 20.4 U              |
| Copper                 | ug/L                | 10.2 U              | 5.4 J                | 14.4 U               | 10.1 U               | 4.7 U               | 33.3                |
| Iron                   | ug/L                | 7 U                 | 1080                 | 3630                 | 6.9 U                | 214                 | 11400               |
| Lead                   | ug/L                | 1.2 U               | 0.8 U                | 4.1                  | 1.2 U                | 0.78 U              | 2.3 J               |
| Magnesium              | ug/L                | 17900               | 16100                | 16700 J              | 18400                | 16800               | 15600               |
| Manganese              | ug/L                | 84.9                | 129                  | 508                  | 130                  | 174                 | 229                 |
| Mercury                | ug/L                | 0.11 R              | 0.09 UJ              | 0.15 R               | 0.11 R               | 0.09 UJ             | 0.1 R               |
| Nickel                 | ug/L                | 14.8 U              | 7.4 UJ               | 15.9 U               | 14.7 U               | 7.5 UJ              | 21.1 J              |
| Potassium              | ug/L                | 1330 J              | 1180 J               | 4980 J               | 4830 J               | 3220 J              | 3720 J              |
| Selenium               | ug/L                | 1 U                 | 1 UJ                 | 1 U                  | 1 J                  | 1.5 UJ              | 1.3 U               |
| Silver                 | ug/L                | 3.4 U               | 8.5 U                | 9 U                  | 3.4 U                | 5.5 U               | 2.4 U               |
| Sodium                 | ug/L                | 11200               | 15000                | 5480 J               | 5540                 | 3750 J              | 18100               |
| Thallium               | ug/L                | 2.2 U               | 2.6 U                | 3.2 U                | 2.6 U                | 3.2 U               | 3.2 U               |
| Vanadium               | ug/L                | 8.5 U               | 6.8 UJ               | 30.4 U               | 9.4 U                | 6.8 UJ              | 13.3 J              |
| Zinc                   | ug/L                | 8.5 U               | 7.4 R                | 17.7 R               | 8.4 U                | 3.4 J               | 39.8 R              |
| Cyanide                | ug/L                | NS                  | 10 UJ                | 10 U J               | NS                   | 10 UJ               | 10 U                |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION | PHASE II WATER MW#39 02/23/83 | PHASE I WATER MW-40 01/09/82 | PHASE I WATER MW-40 01/09/82 | PHASE II WATER MW#40 07/01/83 | PHASE I WATER MW-41D 07/13/82 | PHASE I WATER MW-41D 07/13/82 | PHASE II WATER MW#41D 10/25/82 |
|----------------------------|-----------------|-------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|
|                            | ES ID           | MW#39                         | MW-40                        | MW-40F1c                     | MW#40                         | MW-41D                        | MW-41D                        | MW#41D                         |
|                            | UNITS           | 187232                        | 152155                       | 152188                       | 188128                        | 152409                        | 152409                        | 187084                         |
| Chloroethane               | ug/L            | NS                            | 10 U                         | NS                           | NS                            | 10 U                          | NS                            | NS                             |
| Bromomethane               | ug/L            | NS                            | 10 U                         | NS                           | NS                            | 10 U                          | NS                            | NS                             |
| Vinyl Chloride             | ug/L            | NS                            | 10 U                         | NS                           | NS                            | 10 U                          | NS                            | NS                             |
| Chloroethane               | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 10 U                          | NS                            | NS                             |
| Acetylene Oxide            | ug/L            | NS                            | 10 U                         | NS                           | NS                            | 10 U                          | NS                            | NS                             |
| Acetone                    | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Carbon Disulfide           | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| 1,1-Dichloroethane         | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| 1,1-Dichloroethane (total) | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| 1,2-Dichloroethane         | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| 1,2-Dichloroethane         | ug/L            | NS                            | 10 U                         | NS                           | NS                            | 10 U                          | NS                            | NS                             |
| 1,1,1-Trichloroethane      | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Carbon Tetrachloride       | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Vinyl Acetate              | ug/L            | NS                            | 10 U                         | NS                           | NS                            | 10 U                          | NS                            | NS                             |
| Bromodichloromethane       | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| 1,2-Dichloropropane        | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| cis-1,3-Dichloropropane    | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Trichloroethane            | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Dibromochloromethane       | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Perchloroethylene          | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| 1,1,1-Trichloroethane      | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| 1,2-Dichloropropane        | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| 4-Methyl-2-Pentane         | ug/L            | NS                            | 10 U                         | NS                           | NS                            | 10 U                          | NS                            | NS                             |
| 2-Hexanone                 | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Tetrachloroethane          | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| 1,1,2,2-Tetrachloroethane  | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Toluene                    | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Chlorobenzene              | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Ethylbenzene               | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Styrene                    | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |
| Xylene (total)             | ug/L            | NS                            | 8 U                          | NS                           | NS                            | 8 U                           | NS                            | NS                             |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION             | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER |
|-----------------------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
| DATE                        | MW38           | MW-40         | MW-40         | MW40           | MW-41D        | MW-41D        | MW41D          |
| ES ID                       | 09/23/93       | 01/08/92      | 01/08/92      | 07/01/93       | 01/13/92      | 01/13/92      | 06/22/93       |
| LAB ID                      | MW38           | MW-40         | MW-40         | MW40           | MW-41D        | MW-41D        | MW41D          |
| COMPOUND                    | 187232         | 152155        | 152198        | 185129         | 152409        | 152409        | 157084         |
| VOC's (524.2)               |                |               |               |                |               |               |                |
| Dichlorodifluoromethane     | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Chloromethane               | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Vinyl Chloride              | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Bromomethane                | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Chloroethane                | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Trichlorofluoromethane      | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,1-Dichloroethane          | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Acetone                     | ug/L 5 U       | NS            | NS            | 5 U            | NS            | NS            | 5 U            |
| Carbon Disulfide            | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Methylene Chloride          | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| trans-1,2-Dichloroethane    | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,1-Dichloroethane          | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 2,2-Dichloropropane         | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| cis-1,2-Dichloroethane      | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 2-Butanone                  | ug/L 5 U       | NS            | NS            | 5 U            | NS            | NS            | 5 U            |
| Bromochloromethane          | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Chloroform                  | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,1,1-Trichloroethane       | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Carbon Tetrachloride        | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,1-Dichloropropene         | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Benzene                     | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,2-Dichloroethane          | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Trichloroethene             | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,2-Dichloropropane         | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Dibromomethane              | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Bromodichloromethane        | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| cis-1,3-Dichloropropene     | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 4-Methyl-2-Pentanone        | ug/L 5 U       | NS            | NS            | 5 U            | NS            | NS            | 5 U            |
| Toluene                     | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| trans-1,3-Dichloropropene   | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,1,2-Trichloroethane       | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Tetrachloroethene           | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,3-Dichloropropane         | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 2-Hexanone                  | ug/L 5 U       | NS            | NS            | 5 U            | NS            | NS            | 5 U            |
| Dibromochloromethane        | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,2-Dibromoethane           | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Chlorobenzene               | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,1,1,2-Tetrachloroethane   | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Ethylbenzene                | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Styrene                     | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Bromochloroform             | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Isopropylbenzene            | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Bromobenzene                | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,1,2,2-Tetrachloroethane   | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,2,3-Trichloropropane      | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| n-Propylbenzene             | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 2-Chlorotoluene             | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 4-Chlorotoluene             | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,3,5-Trimethylbenzene      | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| tert-Butylbenzene           | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,2,4-Trimethylbenzene      | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| sec-Butylbenzene            | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,3-Dichlorobenzene         | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,4-Dichlorobenzene         | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| p-Isopropyltoluene          | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,2-Dichlorobenzene         | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| n-Butylbenzene              | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,2-Dibromo-3-Chloropropane | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,2,4-Trichlorobenzene      | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Hexachlorocyclopentadiene   | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Naphthalene                 | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| 1,2,3-Trichlorobenzene      | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |
| Xylene (ota)                | ug/L 0.5 U     | NS            | NS            | 0.5 U          | NS            | NS            | 0.5 U          |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION | PHASE II WATER |       | PHASE I WATER |       | PHASE II WATER |        | PHASE I WATER |        | PHASE II WATER |       | PHASE I WATER |        |
|----------------------------|-----------------|----------------|-------|---------------|-------|----------------|--------|---------------|--------|----------------|-------|---------------|--------|
|                            |                 | DATE           | ES ID | DATE          | ES ID | DATE           | ES ID  | DATE          | ES ID  | DATE           | ES ID | DATE          | ES ID  |
| SEMIVOLATILES              |                 |                |       |               |       |                |        |               |        |                |       |               |        |
| Phenol                     | ug/L            | 06/23/93       | MW38  | 07/09/92      | MW-40 | 07/01/93       | MW40   | 07/13/92      | MW-41D | 06/22/93       | MW41D | 07/13/92      | MW-41D |
| Di(2-Chloroethyl) ether    | ug/L            | 187232         | MW38  | 182155        | MW-40 | 152188         | 188126 | 152409        | MW-41D | 187094         | MW41D | 152409        | 187094 |
| 1,2-Dichlorobenzene        | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 1,3-Dichlorobenzene        | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 1,4-Dichlorobenzene        | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Benzyl Alcohol             | ug/L            | NS             | 11 U  | NS            | NS    | NS             | NS     | 10 U          | NS     | NS             | NS    | NS            | NS     |
| 1,2-Dichlorobenzene        | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 2-Methylphenol             | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Di(2-Chloroethyl) ether    | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 4-Methylphenol             | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| N-Nitro-D-n-propylamine    | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Nitrobenzene               | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Isophorone                 | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 2-Nitrophenol              | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 2,4-Dimethylphenol         | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Benzoic acid               | ug/L            | NS             | 66 U  | NS            | NS    | NS             | NS     | 82 U          | NS     | NS             | NS    | NS            | NS     |
| Di(2-Chloroethyl) methane  | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 2,4-Dichlorophenol         | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 1,2,4-Trichlorobenzene     | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 4-Chlorophenol             | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Heptachloroepoxide         | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 4-Chloro-3-methylphenol    | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 2-Methylnaphthalene        | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Heptachlorocyclopentadiene | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 2,4,6-Trichlorophenol      | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 2-Chloronaphthalene        | ug/L            | 26 U           | 66 U  | NS            | NS    | NS             | 26 U   | 62 U          | NS     | 26 U           | 62 U  | NS            | 26 U   |
| 2-Nitrophenol              | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Dimethylphthalate          | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Acenaphthylene             | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 2,6-Dinitrophenol          | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 3-Nitrophenol              | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Acenaphthene               | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 2,4-Dinitrophenol          | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 4-Nitrophenol              | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Dibenzofuran               | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 1-Methyl-2-naphthol        | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 4-Chlorophenyl-Phenylether | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Fluorene                   | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 4-Nitroaniline             | ug/L            | 26 U           | 66 U  | NS            | NS    | NS             | 26 U   | 62 U          | NS     | 26 U           | 62 U  | NS            | 26 U   |
| 4,6-Dinitro-2-methylphenol | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| N-Nitrosodiphenylamine (I) | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 4-Bromophenyl-phenylether  | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Hexachlorobenzene          | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Hexachlorocyclopentadiene  | ug/L            | 26 U           | 66 U  | NS            | NS    | NS             | 26 U   | 62 U          | NS     | 26 U           | 62 U  | NS            | 26 U   |
| Phenanthrene               | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Anthracene                 | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Carbazole                  | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Di-n-butylphthalate        | ug/L            | 6 U            | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Fluoranthene               | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Pyrene                     | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Buylbenzylphthalate        | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| 3,3-Dichlorobenzidine      | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Benzofuranthracene         | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Di-n-butylphthalate        | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Di-n-octylphthalate        | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Benzofluoranthene          | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Benzofluoranthene          | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Benzofluoranthene          | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Indeno(1,2,3-cd)pyrene     | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Dibenz(a,h)anthracene      | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |
| Benzofluoranthene          | ug/L            | 10 U           | 11 U  | NS            | NS    | NS             | 10 U   | 10 U          | NS     | 10 U           | 10 U  | NS            | 10 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER |         |
|------------------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|---------|
| DATE                   | MW39           | MW-40         | MW-40         | MW40           | MW-41D        | MW-41D        | MW41D          |         |
| ES ID                  | MW39           | MW-40         | MW-40         | MW40           | MW-41D        | MW-41D        | MW41D          |         |
| LAB ID                 | 187232         | 182155        | 182198        | 188126         | 182409        | 182408        | 187084         |         |
| COMPOUND               | UNITS          |               |               |                |               |               |                |         |
| <b>PESTICIDES/PCBS</b> |                |               |               |                |               |               |                |         |
| alpha-BHC              | ug/L           | 0.06 U        | 0.06 U        | NS             | 0.06 U        | 0.067 U R     | 0.071 U J      | 0.06 U  |
| beta-BHC               | ug/L           | 0.06 U        | 0.06 U        | NS             | 0.06 U        | 0.067 U R     | 0.071 U J      | 0.06 U  |
| delta-BHC              | ug/L           | 0.06 U        | 0.06 U        | NS             | 0.06 U        | 0.067 U R     | 0.071 U J      | 0.06 U  |
| gamma-BHC (Lindane)    | ug/L           | 0.06 U        | 0.06 U        | NS             | 0.06 U        | 0.067 U R     | 0.071 U J      | 0.06 U  |
| Heptachlor             | ug/L           | 0.06 U        | 0.06 U        | NS             | 0.06 U        | 0.067 U R     | 0.071 U J      | 0.06 U  |
| Aldrin                 | ug/L           | 0.06 U        | 0.06 U        | NS             | 0.06 U        | 0.067 U R     | 0.071 U J      | 0.06 U  |
| Heptachlor epoxide     | ug/L           | 0.06 U        | 0.06 U        | NS             | 0.06 U        | 0.067 U R     | 0.071 U J      | 0.06 U  |
| Endosulfan I           | ug/L           | 0.06 U        | 0.06 U        | NS             | 0.06 U        | 0.067 U R     | 0.071 U J      | 0.06 U  |
| Dieldrin               | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.11 U R      | 0.14 U J       | 0.1 U   |
| 4,4'-DDE               | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.11 U R      | 0.14 U J       | 0.1 U   |
| Endrin                 | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.11 U R      | 0.14 U J       | 0.1 U   |
| Endosulfan II          | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.11 U R      | 0.14 U J       | 0.1 U   |
| 4,4'-DDD               | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.11 U R      | 0.14 U J       | 0.1 U   |
| Endosulfan sulfate     | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.11 U R      | 0.14 U J       | 0.1 U   |
| 4,4'-DDT               | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.11 U R      | 0.14 U J       | 0.1 U   |
| Methoxychlor           | ug/L           | 0.6 U         | 0.6 U         | NS             | 0.6 U         | 0.67 U R      | 0.71 U J       | 0.6 U   |
| Endrin ketone          | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.11 U R      | 0.14 U J       | 0.1 U   |
| Endrin aldehyde        | ug/L           | 0.1 U         | NS            | NS             | 0.1 U         | NS            | NS             | 0.1 U   |
| alpha-Chlordane        | ug/L           | 0.06 U        | 0.6 U         | NS             | 0.06 U        | 0.67 U R      | 0.71 U J       | 0.06 U  |
| gamma-Chlordane        | ug/L           | 0.06 U        | 0.6 U         | NS             | 0.06 U        | 0.67 U R      | 0.71 U J       | 0.06 U  |
| Toxaphene              | ug/L           | 6 U           | 1 U           | NS             | 6 U           | 1.1 U R       | 1.4 U J        | 6 U     |
| Aroclor-1016           | ug/L           | 1 U           | 0.6 U         | NS             | 1 U           | 0.67 U R      | 0.71 U J       | 1 U     |
| Aroclor-1221           | ug/L           | 2 U           | 0.6 U         | NS             | 2 U           | 0.67 U R      | 0.71 U J       | 2 U     |
| Aroclor-1232           | ug/L           | 1 U           | 0.6 U         | NS             | 1 U           | 0.67 U R      | 0.71 U J       | 1 U     |
| Aroclor-1242           | ug/L           | 1 U           | 0.6 U         | NS             | 1 U           | 0.67 U R      | 0.71 U J       | 1 U     |
| Aroclor-1248           | ug/L           | 1 U           | 0.6 U         | NS             | 1 U           | 0.67 U R      | 0.71 U J       | 1 U     |
| Aroclor-1254           | ug/L           | 1 U           | 1 U           | NS             | 1 U           | 1.1 U R       | 1.4 U J        | 1 U     |
| Aroclor-1260           | ug/L           | 1 U           | 1 U           | NS             | 1 U           | 1.1 U R       | 1.4 U J        | 1 U     |
| <b>HERBICIDES</b>      |                |               |               |                |               |               |                |         |
| 2,4-D                  | ug/L           | 1 U           | 1 U           | NS             | 1 U           | 1 U           | NS             | 1 U     |
| 2,4-DB                 | ug/L           | 1 U           | 1 U           | NS             | 1 U           | 1 U           | NS             | 1 U     |
| 2,4,5-T                | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.1 U         | NS             | 0.1 U   |
| 2,4,5-TP (Silvex)      | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.1 U         | NS             | 0.1 U   |
| Dalapon                | ug/L           | 2.3 U         | 2.3 U         | NS             | 2.3 U         | 2.4 U         | NS             | 2.3 U   |
| Dicamba                | ug/L           | 0.1 U         | 0.1 U         | NS             | 0.1 U         | 0.1 U         | NS             | 0.1 U   |
| Dichloroprop           | ug/L           | 1 U           | 1 U           | NS             | 1 U           | 1 U           | NS             | 1 U     |
| Dinoseb                | ug/L           | 0.6 U         | 0.6 U         | NS             | 0.6 U         | 0.6 U         | NS             | 0.6 U   |
| MCPA                   | ug/L           | 100 U         | 100 U         | NS             | 100 U         | 100 U         | NS             | 100 U   |
| MCPP                   | ug/L           | 100 U         | 100 U         | NS             | 100 U         | 100 U         | NS             | 100 U   |
| <b>METALS</b>          |                |               |               |                |               |               |                |         |
| Aluminum               | ug/L           | 72.6 U        | 2730          | 24.6 U         | 672           | 146 J         | NS             | 72 U    |
| Antimony               | ug/L           | 46.9 UJ       | 66 U J        | 63.4 U         | 49.9 UJ       | 77.3 R        | NS             | 49.6 UJ |
| Arsenic                | ug/L           | 1.4 UJ        | 3.8 U         | 3.8 U          | 1.4 UJ        | 3.8 U         | NS             | 1.4 UJ  |
| Barium                 | ug/L           | 40 J          | 77.8 J        | 32.4 R         | 66 J          | 97 J          | NS             | 67.9 J  |
| Beryllium              | ug/L           | 0.9 U         | 2.1 R         | 2.6 R          | 0.9 U         | 1.9 R         | NS             | 0.88 U  |
| Cadmium                | ug/L           | 2.8 U         | 2.9 U         | 3 U            | 3.3 J         | 2.9 U         | NS             | 2.8 U   |
| Calcium                | ug/L           | 102000        | 164000 J      | 101000         | 115000        | 46800 J       | NS             | 39200   |
| Chromium               | ug/L           | 2.7 UJ        | 19.7          | 6.2 U          | 4.2 J         | 6.2 U         | NS             | 2.7 UJ  |
| Cobalt                 | ug/L           | 6.6 U         | 20 U          | 20.6 U         | 6.6 U         | 18.9 U        | NS             | 6.4 U   |
| Copper                 | ug/L           | 4.7 U         | 14.8 U        | 10.2 U         | 4.7 U         | 14.4 U        | NS             | 4.7 U   |
| Iron                   | ug/L           | 29.2 U        | 8040          | 7 U            | 1390          | 396 R         | NS             | 128     |
| Lead                   | ug/L           | 0.6 U         | 2.1 J         | 1.2 U          | 0.8 U         | 1.2 U         | NS             | 0.8 U   |
| Magnesium              | ug/L           | 14100         | 14300         | 13600          | 13000         | 17300 R       | NS             | 14700   |
| Manganese              | ug/L           | 29.6          | 931           | 464            | 77.9          | 113           | NS             | 43.7    |
| Mercury                | ug/L           | 0.09 UJ       | 0.14 R        | 0.1 R          | 0.09 UJ       | 0.12 R        | NS             | 0.09 UJ |
| Nickel                 | ug/L           | 7.8 UJ        | 18 U          | 14.8 U         | 7.8 UJ        | 18.9 U        | NS             | 7.4 UJ  |
| Potassium              | ug/L           | 2420 J        | 2810 J        | 2810 J         | 2250 J        | 2530 J        | NS             | 2210 J  |
| Selenium               | ug/L           | 1 UJ          | 1 U           | 1 U            | 1.6 J         | 1 U           | NS             | 1 UJ    |
| Silver                 | ug/L           | 5.5 U         | 8.1 U         | 3.4 U          | 6.6 U         | 8.1 U         | NS             | 5.4 U   |
| Sodium                 | ug/L           | 10800         | 7540          | 7270           | 16800         | 77800 J       | NS             | 91000   |
| Thallium               | ug/L           | 2.6 U         | 3.2 U         | 3.2 U          | 2.6 U         | 3.2 U         | NS             | 2.6 U   |
| Vanadium               | ug/L           | 6.8 UJ        | 30.6 U        | 8.8 U          | 6.6 UJ        | 30.6 U        | NS             | 6.7 UJ  |
| Zinc                   | ug/L           | 7 J           | 34.1 R        | 8.5 U          | 16.7 J        | 13.4 U        | NS             | 13.9 J  |
| Cyanide                | ug/L           | 10 UJ         | 10 U J        | NS             | 10 UJ         | 10 U J        | NS             | 10 UJ   |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE I WATER | PHASE I WATER | PHASE I WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER |
|----------------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|
| DATE                       | MW-42D        | MW-42D        | MW-42D        | MW42D          | MW-43          | MW44           | MW45           |
| ES ID                      | MW-42D        | MW-42DRE(4)   | MW-42DFII     | 08/23/93       | 08/30/93       | 07/15/93       | 07/15/93       |
| LAB ID                     | 152410        | 152410        | 152430        | 187233         | 187932         | 189108         | 189108         |
| UNITS                      |               |               |               |                |                |                |                |
| Chloromethane              | 10 U          | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Bromomethane               | 10 U          | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Vinyl Chloride             | 10 U          | NS            | NS            | NS             | 10 U           | 22000          | 10 U           |
| Chloroethane               | 10 U          | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Methylene Chloride         | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Acetone                    | 10 U          | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Carbon Disulfide           | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| 1,1-Dichloroethene         | 5 U           | NS            | NS            | NS             | 10 U           | 200 J          | 10 U           |
| 1,1-Dichloroethane         | 5 U           | NS            | NS            | NS             | 10 U           | 150 J          | 10 U           |
| 1,2-Dichloroethene (total) | 5 U           | NS            | NS            | NS             | 10 U           | 73000          | 10 U           |
| Chloroform                 | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| 1,2-Dichloroethane         | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| 2-Butanone                 | 10 U          | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| 1,1,1-Trichloroethane      | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Carbon Tetrachloride       | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Vinyl Acetate              | 10 U          | NS            | NS            | NS             | NS             | NS             | NS             |
| Bromochloromethane         | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| 1,2-Dichloropropane        | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| cis-1,3-Dichloropropene    | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Trichloroethene            | 5 U           | NS            | NS            | NS             | 10 U           | 37000          | 10 U           |
| Dibromochloromethane       | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| 1,1,2-Trichloroethane      | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Benzene                    | 5 U           | NS            | NS            | NS             | 10 U           | 170 J          | 10 U           |
| trans-1,3-Dichloropropene  | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Bromoform                  | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| 4-Methyl-2-Pentanone       | 10 U          | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| 2-Heptanone                | 10 U          | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Tetrachloroethene          | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| 1,1,2,2-Tetrachloroethane  | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Toluene                    | 5 U           | NS            | NS            | NS             | 10 U           | 880            | 10 U           |
| Chlorobenzene              | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Ethylbenzene               | 5 U           | NS            | NS            | NS             | 10 U           | 130 J          | 10 U           |
| Styrene                    | 5 U           | NS            | NS            | NS             | 10 U           | 710 U          | 10 U           |
| Xylene (total)             | 5 U           | NS            | NS            | NS             | 10 U           | 590 J          | 10 U           |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                    | MATRIX LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE I   | PHASE I  | PHASE I   | PHASE II                                      | PHASE II                                      | PHASE II                                    | PHASE II                                    |
|-----------------------------|---|---|--|---|---|---|---|---|
|                             |   | WATER<br>MW-42D<br>01/13/92<br>MW-42D<br>162410 | WATER<br>MW-42D<br>01/13/92<br>MW-42DRE(4)<br>162410 | WATER<br>MW-42D<br>01/13/92<br>MW-42DFI<br>162430 | WATER<br>MW42D<br>08/23/93<br>MW42D<br>187233 | WATER<br>MW-43<br>08/30/93<br>MW-43<br>187932 | WATER<br>MW44<br>07/15/93<br>MW44<br>189108 | WATER<br>MW45<br>07/15/93<br>MW45<br>189108 |
| VOC's (524.2)               |   |   |  |   |   |   |   |   |
| Dichlorodifluoromethane     | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Chloromethane               | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Vinyl Chloride              | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Bromomethane                | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Chloroethane                | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Trichlorofluoromethane      | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,1-Dichloroethene          | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Acetone                     | ug/L  | NS  | NS   | NS  | 5 U   | NS  | NS  | NS  |
| Carbon Disulfide            | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Methylene Chloride          | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| trans-1,2-Dichloroethane    | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,1-Dichloroethane          | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 2,2-Dichloropropane         | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| cis-1,2-Dichloroethane      | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 2-Butanone                  | ug/L  | NS  | NS   | NS  | 5 U   | NS  | NS  | NS  |
| Bromochloromethane          | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Chloroform                  | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,1,1-Trichloroethane       | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Carbon Tetrachloride        | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,1-Dichloropropene         | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Benzene                     | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,2-Dichloroethane          | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Trichloroethane             | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,2-Dichloropropane         | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Dibromomethane              | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Bromodichloromethane        | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| cis-1,3-Dichloropropene     | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 4-Methyl-2-Pentanone        | ug/L  | NS  | NS   | NS  | 5 U   | NS  | NS  | NS  |
| Toluene                     | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| trans-1,3-Dichloropropene   | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,1,2-Trichloroethane       | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Tetrachloroethane           | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,3-Dichloropropane         | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 2-Hexanone                  | ug/L  | NS  | NS   | NS  | 5 U   | NS  | NS  | NS  |
| Dibromochloromethane        | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,2-Dibromoethane           | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Chlorobenzene               | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,1,1,2-Tetrachloroethane   | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Ethylbenzene                | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Styrene                     | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Bromoform                   | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Isopropylbenzene            | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Bromobenzene                | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,1,2,2-Tetrachloroethane   | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,2,3-Trichloropropane      | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| n-Propylbenzene             | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 2-Chlorotoluene             | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 4-Chlorotoluene             | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,3,5-Trimethylbenzene      | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| tert-Butylbenzene           | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,2,4-Trimethylbenzene      | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| sec-Butylbenzene            | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,3-Dichlorobenzene         | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,4-Dichlorobenzene         | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| p-Isopropyltoluene          | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,2-Dichlorobenzene         | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| n-Butylbenzene              | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,2-Dibromo-3-Chloropropane | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,2,4-Trichlorobenzene      | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Hexachlorobutadiene         | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Naphthalene                 | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| 1,2,3-Trichlorobenzene      | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |
| Xylene (total)              | ug/L  | NS  | NS   | NS  | 0.5 U   | NS  | NS  | NS  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                    | MATRIX LOCATION | PHASE I      |              | PHASE II     |              | PHASE I      |              | PHASE II     |              | PHASE I      |              | PHASE II     |              | PHASE I      |              | PHASE II     |              |
|-----------------------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                             |                 | WATER MW-43D | ES ID MW-43D | WATER MW-43D | ES ID MW-43D | WATER MW-43D | ES ID MW-43D | WATER MW-43D | ES ID MW-43D | WATER MW-43D | ES ID MW-43D | WATER MW-43D | ES ID MW-43D | WATER MW-43D | ES ID MW-43D | WATER MW-43D | ES ID MW-43D |
| SEMIVOLATILES               |                 |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| Phenol                      | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| bis(2-Chloroethyl) ether    | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2-Chlorophenol              | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 1,3-Dichlorobenzene         | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 1,4-Dichlorobenzene         | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Benzyl Alcohol              | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2-Chlorobenzene             | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2-Methylphenol              | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| bis(2-Chloroethoxy) ether   | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 4-Methylphenol              | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| N-Nitroso-d-n-propylamine   | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Hexachloroethane            | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Nitrobenzene                | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Trichlorone                 | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2-Nitrophenol               | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 4-Nitrophenol               | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2,4-Dichlorophenol          | UG/L            | 82 U         | NS           | NS           | NS           | 82 U         | NS           | 82 U         | NS           | NS           | NS           | 82 U         | NS           | NS           | NS           | NS           | 82 U         |
| Benzocyclohexane            | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| bis(2-Chloroethoxy) methane | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2,4-Dichlorophenol          | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 1,2,4-Trichlorobenzene      | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Naphthalene                 | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 4-Chloronitrobenzene        | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Hexachlorocyclopentadiene   | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 4-Chloronitrobenzene        | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 4-Chloro-3-methylphenol     | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2,4-Dichlorophenol          | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Hexachlorocyclopentadiene   | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2,4,6-Trichlorophenol       | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2,4,6-Trichlorophenol       | UG/L            | 82 U         | NS           | NS           | NS           | 82 U         | NS           | 82 U         | NS           | NS           | NS           | 82 U         | NS           | NS           | NS           | NS           | 82 U         |
| 2-Chloronaphthalene         | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2-Nitronitrobenzene         | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Dimethylphthalate           | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Acenaphthylene              | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Dibenzofuran                | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2,8-Dibenzofuran            | UG/L            | 82 U         | NS           | NS           | NS           | 82 U         | NS           | 82 U         | NS           | NS           | NS           | 82 U         | NS           | NS           | NS           | NS           | 82 U         |
| Acenaphthene                | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2,4-Dinitrophenol           | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Dibenzofuran                | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 2,4-Dinitrophenol           | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Diethylphthalate            | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Fluorene                    | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 4-Chlorophenyl-phenylether  | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 4-Ethoxy-2-methylphenol     | UG/L            | 82 U         | NS           | NS           | NS           | 82 U         | NS           | 82 U         | NS           | NS           | NS           | 82 U         | NS           | NS           | NS           | NS           | 82 U         |
| N-Nitrosodiphenylamine (I)  | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| 4-Bromophenyl-phenylether   | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Hexachlorobenzene           | UG/L            | 82 U         | NS           | NS           | NS           | 82 U         | NS           | 82 U         | NS           | NS           | NS           | 82 U         | NS           | NS           | NS           | NS           | 82 U         |
| Pentachlorophenol           | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Phenanthrene                | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Anthracene                  | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Carbazole                   | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Diethylphthalate            | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Fluoranthene                | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Pyrene                      | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Bis(2-ethylhexyl)phthalate  | UG/L            | 21 U         | NS           | NS           | NS           | 21 U         | NS           | 21 U         | NS           | NS           | NS           | 21 U         | NS           | NS           | NS           | NS           | 21 U         |
| 3,3-Dichlorobenzidine       | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Chrysene                    | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| bis(2-Ethylhexyl)phthalate  | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Di-n-octylphthalate         | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Benzofluoranthene           | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Benzo(a)anthracene          | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Iridene(1,2,3-codibenzene)  | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Dibenz(a,h)anthracene       | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |
| Benzo(g,h,i)perylene        | UG/L            | 10 U         | NS           | NS           | NS           | 10 U         | NS           | 10 U         | NS           | NS           | NS           | 10 U         | NS           | NS           | NS           | NS           | 10 U         |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | MATRIX LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNIT# | PHASE I   | PHASE I  | PHASE I   | PHASE II                             | PHASE II                                      | PHASE II                                    | PHASE II                                    |
|------------------------|---|---|--|---|--------------------------------------|---|---|---|
|                        |   | WATER<br>MW-42D<br>01/13/92<br>MW-42D<br>182410 | WATER<br>MW-42D<br>01/13/92<br>MW-42DRE(4)<br>182410 | WATER<br>MW-42D<br>01/13/92<br>MW-42DFI<br>182430 | WATER<br>MW42D<br>08/23/93<br>187233 | WATER<br>MW-43<br>08/30/93<br>MW-43<br>187932 | WATER<br>MW44<br>07/16/93<br>MW44<br>189106 | WATER<br>MW45<br>07/16/93<br>MW45<br>189106 |
| <b>PESTICIDES/PCBS</b> |   |   |  |   |                                      |   |   |   |
| alpha-BHC              | ug/L  | 0.063 U R                                       | 0.062 U J  | NS  | 0.06 U                               | 0.06 U  | 0.066 U                                     | 0.06 U                                      |
| beta-BHC               | ug/L  | 0.063 U R                                       | 0.062 U J  | NS  | 0.06 U                               | 0.06 U  | 0.066 U                                     | 0.06 U                                      |
| delta-BHC              | ug/L  | 0.063 U R                                       | 0.062 U J  | NS  | 0.06 U                               | 0.06 U  | 0.066 U                                     | 0.06 U                                      |
| gamma-BHC (Lindane)    | ug/L  | 0.063 U R                                       | 0.062 U J  | NS  | 0.06 U                               | 0.06 U  | 0.066 U                                     | 0.06 U                                      |
| Heptachlor             | ug/L  | 0.063 U R                                       | 0.062 U J  | NS  | 0.06 U                               | 0.06 U  | 0.066 U                                     | 0.06 U                                      |
| Aldrin                 | ug/L  | 0.063 U R                                       | 0.062 U J  | NS  | 0.06 U                               | 0.06 U  | 0.066 U                                     | 0.06 U                                      |
| Heptachlor epoxide     | ug/L  | 0.063 U R                                       | 0.062 U J  | NS  | 0.06 U                               | 0.06 U  | 0.066 U                                     | 0.06 U                                      |
| Endosulfan I           | ug/L  | 0.063 U R                                       | 0.062 U J  | NS  | 0.06 U                               | 0.06 U  | 0.066 U                                     | 0.06 U                                      |
| Dieldrin               | ug/L  | 0.11 U R  | 0.1 U J  | NS  | 0.1 U                                | 0.1 U   | 0.11 U                                      | 0.1 U                                       |
| 4,4'-DDE               | ug/L  | 0.11 U R  | 0.1 U J  | NS  | 0.1 U                                | 0.1 U   | 0.11 U                                      | 0.1 U                                       |
| Endrin                 | ug/L  | 0.11 U R  | 0.1 U J  | NS  | 0.1 U                                | 0.1 U   | 0.11 U                                      | 0.1 U                                       |
| Endosulfan II          | ug/L  | 0.11 U R  | 0.1 U J  | NS  | 0.1 U                                | 0.1 U   | 0.11 U                                      | 0.1 U                                       |
| 4,4'-DDD               | ug/L  | 0.11 U R  | 0.1 U J  | NS  | 0.1 U                                | 0.1 U   | 0.11 U                                      | 0.1 U                                       |
| Endosulfan sulfate     | ug/L  | 0.11 U R  | 0.1 U J  | NS  | 0.1 U                                | 0.1 U   | 0.11 U                                      | 0.1 U                                       |
| 4,4'-DDT               | ug/L  | 0.11 U R  | 0.1 U J  | NS  | 0.1 U                                | 0.1 U   | 0.11 U                                      | 0.1 U                                       |
| Methoxychlor           | ug/L  | 0.63 U R  | 0.62 U J   | NS  | 0.6 U                                | 0.6 U   | 0.66 U                                      | 0.6 U                                       |
| Endrin ketone          | ug/L  | 0.11 U R  | 0.1 U J  | NS  | 0.1 U                                | 0.1 U   | 0.11 U                                      | 0.1 U                                       |
| Endrin aldehyde        | ug/L  | NS  | NS   | NS  | 0.1 U                                | 0.1 U   | 0.11 U                                      | 0.1 U                                       |
| alpha-Chlordane        | ug/L  | 0.63 U R  | 0.62 U J   | NS  | 0.6 U                                | 0.6 U   | 0.66 U                                      | 0.6 U                                       |
| gamma-Chlordane        | ug/L  | 0.63 U R  | 0.62 U J   | NS  | 0.6 U                                | 0.6 U   | 0.66 U                                      | 0.6 U                                       |
| Toxaphene              | ug/L  | 1.1 U R   | 1 U J  | NS  | 8 U                                  | 8 U   | 8.6 U                                       | 8 U   |
| Aroclor-1016           | ug/L  | 0.63 U R  | 0.62 U J   | NS  | 1 U                                  | 1 U   | 1.1 U                                       | 1 U   |
| Aroclor-1221           | ug/L  | 0.63 U R  | 0.62 U J   | NS  | 2 U                                  | 2 U   | 2.3 U                                       | 2 U   |
| Aroclor-1232           | ug/L  | 0.63 U R  | 0.62 U J   | NS  | 1 U                                  | 1 U   | 1.1 U                                       | 1 U   |
| Aroclor-1242           | ug/L  | 0.63 U R  | 0.62 U J   | NS  | 1 U                                  | 1 U   | 1.1 U                                       | 1 U   |
| Aroclor-1248           | ug/L  | 0.63 U R  | 0.62 U J   | NS  | 1 U                                  | 1 U   | 1.1 U                                       | 1 U   |
| Aroclor-1254           | ug/L  | 1.1 U R   | 1 U J  | NS  | 1 U                                  | 1 U   | 1.1 U                                       | 1 U   |
| Aroclor-1260           | ug/L  | 1.1 U R   | 1 U J  | NS  | 1 U                                  | 1 U   | 1.1 U                                       | 1 U   |
| <b>HERBICIDES</b>      |   |   |  |   |                                      |   |   |   |
| 2,4-D                  | ug/L  | 1.2 U   | NS   | NS  | 1 U                                  | 1 U   | 1.2 U                                       | 1.1 U                                       |
| 2,4-DB                 | ug/L  | 1.2 U   | NS   | NS  | 1 U                                  | 1 U   | 1.2 U                                       | 1.1 U                                       |
| 2,4,5-T                | ug/L  | 0.1 U   | NS   | NS  | 0.1 U                                | 0.1 U   | 0.12 U                                      | 0.11 U                                      |
| 2,4,5-TP (Silvex)      | ug/L  | 0.1 U   | NS   | NS  | 0.1 U                                | 0.1 U   | 0.12 U                                      | 0.11 U                                      |
| Alaquin                | ug/L  | 2.7 U   | NS   | NS  | 2.3 U                                | 2.3 U   | 2.7 U                                       | 2.4 U                                       |
| Dicamba                | ug/L  | 0.1 U   | NS   | NS  | 0.1 U                                | 0.1 U   | 0.12 U                                      | 0.11 U                                      |
| Dichloroprop           | ug/L  | 1.2 U   | NS   | NS  | 1 U                                  | 1 U   | 1.2 U                                       | 1.1 U                                       |
| Dinoseb                | ug/L  | 0.6 U   | NS   | NS  | 0.6 U                                | 0.6 U   | 0.66 U                                      | 0.6 U                                       |
| MCPA                   | ug/L  | 120 U   | NS   | NS  | 100 U                                | 100 U   | 120 U                                       | 110 U                                       |
| MCPP                   | ug/L  | 120 U   | NS   | NS  | 100 U                                | 100 U   | 120 U                                       | 110 U                                       |
| <b>METALS</b>          |   |   |  |   |                                      |   |   |   |
| Aluminum               | ug/L  | 208   | NS   | 24.6 U  | 72.8 U                               | 62700   | 12300 J                                     | 21300 J                                     |
| Antimony               | ug/L  | 66.6 U J  | NS   | 63.2 U  | 49.8 UJ                              | 48.6 UJ                                       | 49.7 U                                      | 49.6 U                                      |
| Arsenic                | ug/L  | 3.6 U   | NS   | 3.6 U   | 1.4 UJ                               | 1.4 UJ  | 7.6 J                                       | 2.7 J                                       |
| Barium                 | ug/L  | 112 J   | NS   | 86.3 J  | 86 J                                 | 358   | 317   | 243   |
| Beryllium              | ug/L  | 2.1 R   | NS   | 2.6 R   | 0.8 U                                | 2.5 J   | 1.6 J                                       | 1.6 J                                       |
| Cadmium                | ug/L  | 2.9 U   | NS   | 3 U   | 2.8 U                                | 2.8 U   | 2.8 U                                       | 2.8 U                                       |
| Calcium                | ug/L  | 67300 J   | NS   | 68000   | 69200                                | 403000  | 370000                                      | 181000                                      |
| Chromium               | ug/L  | 6.7 J   | NS   | 6.2 U   | 2.7 UJ                               | 66.2 J  | 18.2 J                                      | 28.1 J                                      |
| Cobalt                 | ug/L  | 18.6 U  | NS   | 20.4 U  | 6.6 U                                | 36.1 J  | 22.6 J                                      | 28.3 J                                      |
| Copper                 | ug/L  | 14.4 U  | NS   | 10.2 U  | 4.7 U                                | 61.4  | 12.9 J                                      | 6.7 J                                       |
| Iron                   | ug/L  | 883 R   | NS   | 7 U   | 106                                  | 86500   | 18600 J                                     | 30100 J                                     |
| Lead                   | ug/L  | 1.2 U   | NS   | 1.2 U   | 0.78 U                               | 21.8  | 147   | 5.8   |
| Magnesium              | ug/L  | 26200 J   | NS   | 32800   | 30100                                | 36100   | 41100                                       | 22100                                       |
| Manganese              | ug/L  | 168   | NS   | 112   | 66                                   | 2260  | 7120  | 1010  |
| Mercury                | ug/L  | 0.16 R  | NS   | 0.12 R  | 0.09 UJ                              | 0.36 J  | 0.38  | 0.18 J                                      |
| Nickel                 | ug/L  | 16.8 U  | NS   | 14.8 U  | 7.8 UJ                               | 107 J   | 30.6 J                                      | 46.3 J                                      |
| Potassium              | ug/L  | 9470  | NS   | 11200   | 2960 J                               | 10300   | 6680  | 6220  |
| Selenium               | ug/L  | 1 U   | NS   | 1 U   | 0.98 UJ                              | 8 UJ  | 10 UJ                                       | 0.98 UJ                                     |
| Silver                 | ug/L  | 8 U   | NS   | 4.4 R   | 6.6 U                                | 6.6 U   | 6.6 U                                       | 6.6 U                                       |
| Sodium                 | ug/L  | 18700 J   | NS   | 18700   | 17200                                | 11900   | 37800                                       | 8420  |
| Thallium               | ug/L  | 3.2 U   | NS   | 3.2 U   | 2.6 U                                | 2.6 U   | 26.9 U                                      | 2.6 U                                       |
| Vanadium               | ug/L  | 30.3 U  | NS   | 9.6 U   | 6.8 UJ                               | 73.4 J  | 13.3 J                                      | 26.2 J                                      |
| Zinc                   | ug/L  | 13.4 U  | NS   | 8.6 U   | 4.9 J                                | 223   | 117 J                                       | 116 J                                       |
| Cyanide                | ug/L  | 10 U J  | NS   | NS  | 10 UJ                                | 10 UJ   | 4.3 J                                       | 1.3 J                                       |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER |
|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| DATE                       | MW46           | MW47           | MW47RE         | MW46           | MW49D          | MW80D          | MW81D          |
| ES ID                      | 07/14/93       | 07/10/93       | 07/10/93       | 07/15/93       | 07/14/93       | 07/14/93       | 07/10/93       |
| LAB ID                     | MW46           | MW47           | MW47RE         | MW46           | MW49D          | MW80D          | MW81D          |
| UNITS                      | 189023         | 189722         | 189722         | 189109         | 189025         | 189026         | 189723         |
| Chloromethane              | ug/L 10 U      | ug/L 10 U      | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Bromomethane               | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Vinyl Chloride             | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Chloroethane               | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Methylene Chloride         | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Acetone                    | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Carbon Disulfide           | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,1-Dichloroethene         | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,1-Dichloroethane         | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,2-Dichloroethene (total) | ug/L 120       | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Chloroform                 | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,2-Dichloroethane         | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 2-Butanone                 | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,1,1-Trichloroethane      | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Carbon Tetrachloride       | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Vinyl Acetate              | ug/L NS        | NS             | NS             | NS             | NS             | NS             | NS             |
| Bromodichloromethane       | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,2-Dichloropropane        | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| cis-1,3-Dichloropropene    | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Trichloroethene            | ug/L 47        | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Dibromochloromethane       | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,1,2-Trichloroethane      | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Benzene                    | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 8 J            |
| trans-1,3-Dichloropropene  | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Bromoform                  | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 4-Methyl-2-Pentanone       | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 2-Hexanone                 | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Tetrachloroethene          | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,1,2,2-Tetrachloroethane  | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Toluene                    | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Chlorobenzene              | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Ethylbenzene               | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Styrene                    | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |
| Xylene (total)             | ug/L 10 U      | 10 U           | NS             | 10 U           | 10 U           | 10 U           | 10 U           |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | PHASE II WATER MW46 07/14/93 MW46 189023 | PHASE II WATER MW47 07/10/93 MW47 189722 | PHASE II WATER MW47RE 07/10/93 MW47RE 189722 | PHASE II WATER MW48 07/15/93 MW48 189109 | PHASE II WATER MW48D 07/14/93 MW48D 189026 | PHASE II WATER MW50D 07/14/93 MW50D 189026 | PHASE II WATER MW51D 07/10/93 MW51D 189723 |
|-----------------------------------|--|--|--|--|--|--|--|
| COMPOUND UNITS                    |  |  |  |  |  |  |  |
| VOC's (B24.2)                     |  |  |  |  |  |  |  |
| Dichlorodifluoromethane           | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Chloromethane                     | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Vinyl Chloride                    | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Bromomethane                      | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Chloroethane                      | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Trichlorofluoromethane            | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,1-Dichloroethene                | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Acetone                           | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Carbon Disulfide                  | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Methylene Chloride                | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| trans-1,2-Dichloroethene          | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,1-Dichloroethane                | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 2,2-Dichloropropane               | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| cis-1,2-Dichloroethene            | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 2-Butanone                        | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Bromochloromethane                | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Chloroform                        | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,1,1-Trichloroethane             | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Carbon Tetrachloride              | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,1-Dichloropropene               | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Benzene                           | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,2-Dichloroethane                | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Trichloroethene                   | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,2-Dichloropropane               | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Dibromomethane                    | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Bromodichloromethane              | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| cis-1,3-Dichloropropene           | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 4-Methyl-2-Pentanone              | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Toluene                           | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| trans-1,3-Dichloropropene         | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,1,2-Trichloroethane             | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Tetrachloroethene                 | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,3-Dichloropropane               | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 2-Hexanone                        | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Dibromochloromethane              | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,2-Dibromoethane                 | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Chlorobenzene                     | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,1,1,2-Tetrachloroethane         | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Ethylbenzene                      | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Styrene                           | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Bromoform                         | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Isopropylbenzene                  | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Bromobenzene                      | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,1,2,2-Tetrachloroethane         | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,2,3-Trichloropropane            | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| n-Propylbenzene                   | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 2-Chlorotoluene                   | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 4-Chlorotoluene                   | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,3,5-Trimethylbenzene            | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| tert-Butylbenzene                 | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,2,4-Trimethylbenzene            | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| sec-Butylbenzene                  | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,3-Dichlorobenzene               | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,4-Dichlorobenzene               | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| p-Isopropyltoluene                | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,2-Dichlorobenzene               | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| n-Butylbenzene                    | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,2-Dibromo-3-Chloropropane       | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,2,4-Trichlorobenzene            | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Hexachlorocyclohexene             | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Naphthalene                       | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| 1,2,3-Trichlorobenzene            | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |
| Xylene (Total)                    | ug/L                                     | NS                                       | NS   | NS                                       | NS   | NS   | NS   |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | DATE  | ES ID | LAB ID | PHASE II WATER MW46 | PHASE II WATER MW47 | PHASE II WATER MW47RE | PHASE II WATER MW46 | PHASE II WATER MW48D | PHASE II WATER MW50D | PHASE II WATER MW51D |
|------------------------------|-------|-------|--------|---------------------|---------------------|-----------------------|---------------------|----------------------|----------------------|----------------------|
| COMPOUND                     | DATE  | ES ID | LAB ID | 189023              | 188722              | 188722                | 189109              | 189025               | 189028               | 188723               |
| COMPOUND                     | DATE  | ES ID | LAB ID | 189023              | 188722              | 188722                | 189109              | 189025               | 189028               | 188723               |
| SEMI-VOLATILES               | UNITS |       |        |                     |                     |                       |                     |                      |                      |                      |
| Phenol                       | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| bis(2-Chloroethyl) ether     | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2-Chlorophenol               | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 1,3-Dichlorobenzene          | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 1,4-Dichlorobenzene          | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Benzyl Alcohol               | ug/L  |       |        | NS                  | NS                  | NS                    | NS                  | NS                   | NS                   | NS                   |
| 1,2-Dichlorobenzene          | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2-Methylphenol               | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| bis(2-Chloroisopropyl) ether | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 4-Methylphenol               | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| N-Nitroso-di-n-propylamine   | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Hexachloroethane             | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Nitrobenzene                 | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Isophorone                   | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2-Nitrophenol                | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2,4-Dimethylphenol           | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Benzoic acid                 | ug/L  |       |        | NS                  | NS                  | NS                    | NS                  | NS                   | NS                   | NS                   |
| bis(2-Chloroethyl) methane   | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2,4-Dichlorophenol           | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 1,2,4-Trichlorobenzene       | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Naphthalene                  | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 4-Chloroaniline              | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Hexachlorobutadiene          | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 4-Chloro-3-methylphenol      | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2-Methylnaphthalene          | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Hexachlorocyclopentadiene    | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2,4,6-Trichlorophenol        | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2,4,6-Trichlorophenol        | ug/L  |       |        | 25 U                | 25 U                | 25 U                  | 25 U                | 25 U                 | 25 U                 | 25 U                 |
| 2-Chloronaphthalene          | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2-Nitroaniline               | ug/L  |       |        | 25 U                | 25 U                | 25 U                  | 25 U                | 25 U                 | 25 U                 | 25 U                 |
| Dimethylphthalate            | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Acenaphthylene               | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2,6-Dinitrotoluene           | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2-Nitroaniline               | ug/L  |       |        | 25 U                | 25 U                | 25 U                  | 25 U                | 25 U                 | 25 U                 | 25 U                 |
| Acenaphthene                 | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2,4-Dinitrophenol            | ug/L  |       |        | 25 U                | 25 U                | 25 U                  | 25 U                | 25 U                 | 25 U                 | 25 U                 |
| 4-Nitrophenol                | ug/L  |       |        | 25 U                | 25 U                | 25 U                  | 25 U                | 25 U                 | 25 U                 | 25 U                 |
| Dibenzofuran                 | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 2,4-Dinitrotoluene           | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Diethylphthalate             | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 4-Chlorophenyl-phenylether   | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Fluorene                     | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 4-Nitroaniline               | ug/L  |       |        | 25 U                | 25 U                | 25 U                  | 25 U                | 25 U                 | 25 U                 | 25 U                 |
| 4,6-Dinitro-2-methylphenol   | ug/L  |       |        | 25 U                | 25 U                | 25 U                  | 25 U                | 25 U                 | 25 U                 | 25 U                 |
| N-Nitrosodiphenylamine (1)   | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 4-Bromophenyl-phenylether    | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Hexachlorobenzene            | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Pentachlorophenol            | ug/L  |       |        | 25 U                | 25 U                | 25 U                  | 25 U                | 25 U                 | 25 U                 | 25 U                 |
| Phenanthrene                 | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Anthracene                   | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Carbazole                    | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Di-n-butylphthalate          | ug/L  |       |        | 0.5 J               | 10 U                | 10 U                  | 2 J                 | 1 J                  | 10 U                 | 10 U                 |
| Fluoranthene                 | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Pyrene                       | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Butylbenzylphthalate         | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| 3,3'-Dichlorobenzidine       | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Benz(a)anthracene            | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Chrysene                     | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| bis(2-Ethylhexyl)phthalate   | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Di-n-octylphthalate          | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Benz(b)fluoranthene          | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Benz(a)pyrene                | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Indeno(1,2,3-cd)pyrene       | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Dibenz(a,h)anthracene        | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |
| Benz(g,h,i)perylene          | ug/L  |       |        | 10 U                | 10 U                | 10 U                  | 10 U                | 10 U                 | 10 U                 | 10 U                 |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | PHASE II WATER MW46 07/14/93 MW46 189023 | PHASE II WATER MW47 07/10/93 MW47 188722 | PHASE II WATER MW47RE 07/10/93 MW47RE 188722 | PHASE II WATER MW48 07/15/93 MW48 189109 | PHASE II WATER MW49D 07/14/93 MW49D 189025 | PHASE II WATER MW50D 07/14/93 MW50D 189026 | PHASE II WATER MW51D 07/10/93 MW51D 188723 |
|-----------------------------------|--|--|--|--|--|--|--|
| COMPOUND UNITS                    |  |  |  |  |  |  |  |
| <b>PESTICIDES/PCBS</b>            |  |  |  |  |  |  |  |
| alpha-BHC                         | ug/L                                     | 0.05 U                                   | 0.052 U                                      | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| beta-BHC                          | ug/L                                     | 0.05 U                                   | 0.052 U                                      | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| delta-BHC                         | ug/L                                     | 0.05 U                                   | 0.026 JP                                     | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| gamma-BHC (Lindane)               | ug/L                                     | 0.05 U                                   | 0.052 U                                      | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| Heptachlor                        | ug/L                                     | 0.05 U                                   | 0.052 U                                      | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| Aldrin                            | ug/L                                     | 0.05 U                                   | 0.052 U                                      | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| Heptachlor epoxide                | ug/L                                     | 0.05 U                                   | 0.052 U                                      | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| Endosulfan I                      | ug/L                                     | 0.05 U                                   | 0.052 U                                      | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| Dieldrin                          | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| 4,4'-DDE                          | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| Endrin                            | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| Endosulfan II                     | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| 4,4'-DDD                          | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| Endosulfan sulfate                | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| 4,4'-DDT                          | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| Methoxychlor                      | ug/L                                     | 0.5 U                                    | 0.52 U                                       | NS                                       | 0.5 U                                      | 0.5 U                                      | 0.5 U                                      |
| Endrin ketone                     | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| Endrin aldehyde                   | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| alpha-Chlordane                   | ug/L                                     | 0.05 U                                   | 0.052 U                                      | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| gamma-Chlordane                   | ug/L                                     | 0.05 U                                   | 0.052 U                                      | NS                                       | 0.05 U                                     | 0.05 U                                     | 0.05 U                                     |
| Toxaphene                         | ug/L                                     | 5 U                                      | 5.2 U  | NS                                       | 5 U  | 5 U  | 5 U  |
| Aroclor-1016                      | ug/L                                     | 1 U                                      | 1 U  | NS                                       | 1 U  | 1 U  | 1 U  |
| Aroclor-1221                      | ug/L                                     | 2 U                                      | 2.1 U  | NS                                       | 2 U  | 2 U  | 2 U  |
| Aroclor-1232                      | ug/L                                     | 1 U                                      | 1 U  | NS                                       | 1 U  | 1 U  | 1 U  |
| Aroclor-1242                      | ug/L                                     | 1 U                                      | 1 U  | NS                                       | 1 U  | 1 U  | 1 U  |
| Aroclor-1248                      | ug/L                                     | 1 U                                      | 1 U  | NS                                       | 1 U  | 1 U  | 1 U  |
| Aroclor-1254                      | ug/L                                     | 1 U                                      | 1 U  | NS                                       | 1 U  | 1 U  | 1 U  |
| Aroclor-1260                      | ug/L                                     | 1 U                                      | 1 U  | NS                                       | 1 U  | 1 U  | 1 U  |
| <b>HERBICIDES</b>                 |  |  |  |  |  |  |  |
| 2,4-D                             | ug/L                                     | 1 U                                      | 1 U  | NS                                       | 1 U  | 1 U  | 1 U  |
| 2,4-DB                            | ug/L                                     | 1 U                                      | 1 U  | NS                                       | 1 U  | 1 U  | 1 U  |
| 2,4,5-T                           | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| 2,4,5-TP (Silvex)                 | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| Dalapon                           | ug/L                                     | 2.3 U                                    | 2.3 U  | NS                                       | 2.3 U                                      | 2.3 U                                      | 2.3 U                                      |
| Dicamba                           | ug/L                                     | 0.1 U                                    | 0.1 U  | NS                                       | 0.1 U                                      | 0.1 U                                      | 0.1 U                                      |
| Dichloroprop                      | ug/L                                     | 1 U                                      | 1 U  | NS                                       | 1 U  | 1 U  | 1 U  |
| Dinoseb                           | ug/L                                     | 0.5 U                                    | 0.5 U  | NS                                       | 0.5 U                                      | 0.5 U                                      | 0.5 U                                      |
| MCPA                              | ug/L                                     | 100 U                                    | 100 U  | NS                                       | 100 U                                      | 100 U                                      | 100 U                                      |
| MCPP                              | ug/L                                     | 100 U                                    | 100 U  | NS                                       | 100 U                                      | 100 U                                      | 100 U                                      |
| <b>METALS</b>                     |  |  |  |  |  |  |  |
| Aluminum                          | ug/L                                     | 56300                                    | 17900  | NS                                       | 22700 J                                    | 82.9 J                                     | 81.6 J                                     |
| Antimony                          | ug/L                                     | 49.7 U                                   | 49.8 UJ                                      | NS                                       | 48.5 U                                     | 53.6 R                                     | 49.7 R                                     |
| Arsenic                           | ug/L                                     | 3.1 J                                    | 1.7 J  | NS                                       | 3.9 J                                      | 1.4 U                                      | 1.4 UJ                                     |
| Barium                            | ug/L                                     | 813                                      | 214  | NS                                       | 258  | 86 J                                       | 65.9 J                                     |
| Beryllium                         | ug/L                                     | 2.5 J                                    | 0.89 U                                       | NS                                       | 1.9 J                                      | 0.9 U                                      | 0.99 U                                     |
| Cadmium                           | ug/L                                     | 2.8 U                                    | 2.8 U  | NS                                       | 2.8 U                                      | 2.8 U                                      | 2.8 U                                      |
| Calcium                           | ug/L                                     | 459000                                   | 153000                                       | NS                                       | 202000                                     | 86800                                      | 45900                                      |
| Chromium                          | ug/L                                     | 88.4                                     | 27.5 J                                       | NS                                       | 36.2 J                                     | 2.7 U                                      | 2.7 UJ                                     |
| Cobalt                            | ug/L                                     | 38.7 J                                   | 11.2 J                                       | NS                                       | 27.6 J                                     | 5.5 U                                      | 5.5 U                                      |
| Copper                            | ug/L                                     | 49.8                                     | 18 J   | NS                                       | 14.4                                       | 5 J  | 7 J  |
| Iron                              | ug/L                                     | 86600 J                                  | 23400  | NS                                       | 34700 J                                    | 719 J                                      | 112 J                                      |
| Lead                              | ug/L                                     | 23                                       | 8.3  | NS                                       | 22   | 0.59 U                                     | 0.6 U                                      |
| Magnesium                         | ug/L                                     | 43800                                    | 18700  | NS                                       | 25800                                      | 20500                                      | 20800                                      |
| Manganese                         | ug/L                                     | 2770                                     | 814  | NS                                       | 1230                                       | 98.9                                       | 72.2                                       |
| Mercury                           | ug/L                                     | 0.41 J                                   | 0.09 UJ                                      | NS                                       | 2.3  | 0.09 UJ                                    | 0.09 UJ                                    |
| Nickel                            | ug/L                                     | 101                                      | 30 J   | NS                                       | 80 J                                       | 7.5 U                                      | 7.4 U                                      |
| Potassium                         | ug/L                                     | 11800                                    | 4730 J                                       | NS                                       | 5820 J                                     | 2820 J                                     | 2800 J                                     |
| Selenium                          | ug/L                                     | 2.9 J                                    | 1.8 UJ                                       | NS                                       | 10 UJ                                      | 1.5 U                                      | 1.5 UJ                                     |
| Silver                            | ug/L                                     | 7.2 J                                    | 6.5 U  | NS                                       | 6.5 U                                      | 5.5 U                                      | 5.5 U                                      |
| Sodium                            | ug/L                                     | 11700                                    | 11000  | NS                                       | 10400                                      | 12200                                      | 21100                                      |
| Thallium                          | ug/L                                     | 2.8 U                                    | 2.8 U  | NS                                       | 2.8 U                                      | 2.8 U                                      | 2.6 U                                      |
| Vanadium                          | ug/L                                     | 81.9                                     | 27.3 J                                       | NS                                       | 29.4 J                                     | 6.8 U                                      | 6.7 U                                      |
| Zinc                              | ug/L                                     | 240                                      | 59.2 R                                       | NS                                       | 149 J                                      | 22.3                                       | 23.4                                       |
| Cyanide                           | ug/L                                     | 1.2 U                                    | 4.4 UJ                                       | NS                                       | 1.2 U                                      | 1.7 J                                      | 1.4 J                                      |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRX LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE II  | PHASE II                                      | PHASE II                                    | PHASE II  | PHASE II                                      | PHASE II                                      | PHASE II                                    |
|----------------------------|--|---|---|---|---|---|---|---|
|                            |  | WATER<br>MW51DRE<br>07/10/93<br>MW51DRE<br>188723 | WATER<br>MW52D<br>07/02/93<br>MW52D<br>188152 | WATER<br>MW53<br>07/13/93<br>MW53<br>188802 | WATER<br>MW53 RE<br>07/11/93<br>MW53 RE<br>188802R1 | WATER<br>MW54D<br>07/13/93<br>MW54D<br>188803 | WATER<br>MW55D<br>07/15/93<br>MW55D<br>189110 | WATER<br>MW56<br>07/02/93<br>MW56<br>188153 |
| Chloromethane              | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Bromomethane               | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Vinyl Chloride             | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Chloroethane               | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Methylene Chloride         | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Acetone                    | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Carbon Disulfide           | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 1,1-Dichloroethene         | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 1,1-Dichloroethane         | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 1,2-Dichloroethene (total) | ug/L   | NS  | 10 U  | 51  | NS  | 10 U  | 10 U  | 10 U  |
| Chloroform                 | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 1,2-Dichloroethane         | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 2-Butanone                 | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 1,1,1-Trichloroethane      | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Carbon Tetrachloride       | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Vinyl Acetate              | ug/L   | NS  | NS  | NS  | NS  | NS  | NS  | NS  |
| Bromodichloromethane       | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 1,2-Dichloropropane        | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| cis-1,3-Dichloropropene    | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Trichloroethene            | ug/L   | NS  | 10 U  | 4 J   | NS  | 10 U  | 10 U  | 10 U  |
| Dibromochloromethane       | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 1,1,2-Trichloroethane      | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Benzene                    | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| trans-1,3-Dichloropropene  | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Bromoform                  | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 4-Methyl-2-Pentanone       | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 2-Hexanone                 | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Tetrachloroethene          | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| 1,1,2,2-Tetrachloroethane  | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Toluene                    | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Chlorobenzene              | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Ethylbenzene               | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Styrene                    | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |
| Xylene (total)             | ug/L   | NS  | 10 U  | 10 U  | NS  | 10 U  | 10 U  | 10 U  |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                    | MATRIX LOCATION | PHASE II | PHASE II | PHASE II | PHASE II | PHASE II | PHASE II | PHASE II |
|-----------------------------|-----------------|----------|----------|----------|----------|----------|----------|----------|
|                             |                 | WATER    | WATER    | WATER    | WATER    | WATER    | WATER    | WATER    |
| DATE                        | DATE            | DATE     | DATE     | DATE     | DATE     | DATE     | DATE     | DATE     |
| ES ID                       | ES ID           | ES ID    | ES ID    | ES ID    | ES ID    | ES ID    | ES ID    | ES ID    |
| LAB ID                      | LAB ID          | LAB ID   | LAB ID   | LAB ID   | LAB ID   | LAB ID   | LAB ID   | LAB ID   |
| UNITS                       | UNITS           | UNITS    | UNITS    | UNITS    | UNITS    | UNITS    | UNITS    | UNITS    |
| VOC's (524.2)               |                 |          |          |          |          |          |          |          |
| Dichlorodifluoromethane     | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Chloromethane               | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Vinyl Chloride              | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Bromomethane                | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Chloroethane                | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Trichlorofluoromethane      | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,1-Dichloroethene          | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Acetone                     | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Carbon Disulfide            | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Methylene Chloride          | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| trans-1,2-Dichloroethene    | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,1-Dichloroethane          | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 2,2-Dichloropropane         | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| cis-1,2-Dichloroethene      | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 2-Butanone                  | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Bromochloromethane          | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Chloroform                  | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,1,1-Trichloroethane       | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Carbon Tetrachloride        | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,1-Dichloropropene         | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Benzene                     | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dichloroethane          | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Trichloroethene             | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dichloropropane         | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Dibromomethane              | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Bromodichloromethane        | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| cis-1,3-Dichloropropene     | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 4-Methyl-2-Pentanone        | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Toluene                     | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| trans-1,3-Dichloropropene   | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,1,2-Trichloroethane       | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Tetrachloroethene           | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,3-Dichloropropane         | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 2-Hexanone                  | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Dibromochloromethane        | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dibromoethane           | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Chlorobenzene               | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,1,1,2-Tetrachloroethane   | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Ethylbenzene                | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Styrene                     | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Bromoform                   | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Isopropylbenzene            | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Bromobenzene                | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,1,2,2-Tetrachloroethane   | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2,3-Trichloropropane      | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| n-Propylbenzene             | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 2-Chlorotoluene             | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 4-Chlorotoluene             | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,3,5-Trimethylbenzene      | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| tert-Butylbenzene           | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2,4-Trimethylbenzene      | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| sec-Butylbenzene            | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,3-Dichlorobenzene         | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,4-Dichlorobenzene         | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| p-Isopropyltoluene          | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dichlorobenzene         | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| n-Butylbenzene              | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2-Dibromo-3-Chloropropane | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2,4-Trichlorobenzene      | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Hexachlorobutadiene         | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Naphthalene                 | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| 1,2,3-Trichlorobenzene      | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |
| Xylene (total)              | ug/L            | NS       | NS       | NS       | NS       | NS       | NS       | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | PHASE II WATER MW51DRE 07/10/93 MW51DRE 186723 | PHASE II WATER MW52D 07/02/93 MW52D 186152 | PHASE II WATER MW53 07/13/93 MW53 186602 | PHASE II WATER MW53 RE 07/11/93 MW53 RE 186602R1 | PHASE II WATER MW54D 07/13/93 MW54D 186603 | PHASE II WATER MW54D 07/15/93 MW54D 189110 | PHASE II WATER MW56 MW56 07/02/93 MW56 186153 |      |
|-----------------------------------|--|--|--|--|--|--|---|------|
| COMPOUND UNITS                    |  |  |  |  |  |  |   |      |
| SEMIVOLATILES                     |  |  |  |  |  |  |   |      |
| Phenol                            | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| bis(2-Chloroethyl) ether          | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2-Chlorophenol                    | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 1,3-Dichlorobenzene               | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 1,4-Dichlorobenzene               | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Benzyl Alcohol                    | ug/L   | NS   | NS                                       | NS   | NS   | NS   | NS  | NS   |
| 1,2-Dichlorobenzene               | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2-Methylphenol                    | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| bis(2-Chloroisopropyl) ether      | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 4-Methylphenol                    | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| N-Nitroso-di-n-propylamine        | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Hexachloroethane                  | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Nitrobenzene                      | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Isophorone                        | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2-Nitrophenol                     | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2,4-Dimethylphenol                | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Benzic acid                       | ug/L   | NS   | NS                                       | NS   | NS   | NS   | NS  | NS   |
| bis(2-Chloroethoxy) methane       | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2,4-Dichlorophenol                | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 1,2,4-Trichlorobenzene            | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Naphthalene                       | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 4-Chloroaniline                   | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Hexachlorobutadiene               | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 4-Chloro-3-methylphenol           | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2-Methylnaphthalene               | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Hexachlorocyclopentadiene         | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2,4,6-Trichlorophenol             | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2,4,8-Trichlorophenol             | ug/L   | 26 U                                       | 27 U                                     | 26 U   | NS   | 26 U                                       | 26 U  | 33 U |
| 2-Chloronaphthalene               | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2-Nitroaniline                    | ug/L   | 26 U                                       | 27 U                                     | 26 U   | NS   | 26 U                                       | 26 U  | 33 U |
| Dimethylphthalate                 | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Acenaphthylene                    | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2,6-Dinitrotoluene                | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 3-Nitroaniline                    | ug/L   | 26 U                                       | 27 U                                     | 26 U   | NS   | 26 U                                       | 26 U  | 33 U |
| Acenaphthene                      | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2,4-Dinitrophenol                 | ug/L   | 26 U                                       | 27 U                                     | 26 U   | NS   | 26 U                                       | 26 U  | 33 U |
| 4-Nitrophenol                     | ug/L   | 26 U                                       | 27 U                                     | 26 U   | NS   | 26 U                                       | 26 U  | 33 U |
| Dibenzofuran                      | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 2,4-Dinitrotoluene                | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Diethylphthalate                  | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 4-Chlorophenyl-phenylether        | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Fluorene                          | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 4-Nitroaniline                    | ug/L   | 26 U                                       | 27 U                                     | 26 U   | NS   | 26 U                                       | 26 U  | 33 U |
| 4,6-Dinitro-2-methylphenol        | ug/L   | 26 U                                       | 27 U                                     | 26 U   | NS   | 26 U                                       | 26 U  | 33 U |
| N-Nitrosodiphenylamine (1)        | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 4-Bromophenyl-phenylether         | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Hexachlorobenzene                 | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Perchlorophenol                   | ug/L   | 26 U                                       | 27 U                                     | 26 U   | NS   | 26 U                                       | 26 U  | 33 U |
| Phenanthrene                      | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Anthracene                        | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Carbazole                         | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Di-n-butylphthalate               | ug/L   | 10 U                                       | 9 J                                      | 1 J  | NS   | 1 J  | 9 J   | 13 U |
| Fluoranthene                      | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Pyrene                            | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Butylbenzylphthalate              | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| 3,3'-Dichlorobenzidine            | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Benzo(a)anthracene                | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Chrysene                          | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| bis(2-Ethylhexyl)phthalate        | ug/L   | 10 U                                       | 17 U                                     | 10 U   | NS   | 10 U                                       | 13 U  | 76 U |
| Di-n-octylphthalate               | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Benzo(b)fluoranthene              | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Benzo(k)fluoranthene              | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Benzo(a)pyrene                    | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Indeno(1,2,3-cd)pyrene            | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Dibenz(a,h)anthracene             | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |
| Benzo(g,h,i)perylene              | ug/L   | 10 U                                       | 11 U                                     | 10 U   | NS   | 10 U                                       | 10 U  | 13 U |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND               | MTRX LOCATION DATE ES ID LAB ID UNITS | PHASE II                              | PHASE II                        | PHASE II                        | PHASE II                                | PHASE II                                | PHASE II                                | PHASE II                             |
|------------------------|---------------------------------------|---------------------------------------|---------------------------------|---------------------------------|---|---|---|--------------------------------------|
|                        |                                       | WATER MW51DRE 07/11/93 MW81DRE 188723 | WATER MW5D 07/02/93 MW5D 188152 | WATER MW93 07/13/93 MW53 188802 | WATER MW93 RE 07/11/93 MW93 RE 188802R1 | WATER MW54D MW54D 07/13/93 MW54D 188803 | WATER MW55D MW55D 07/15/93 MW55D 189110 | WATER MW56 MW56 07/02/93 MW56 188153 |
| <b>PESTICIDES/PCBS</b> |                                       |                                       |                                 |                                 |   |   |   |                                      |
| alpha-BHC              | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| beta-BHC               | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| delta-BHC              | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| gamma-BHC (Lindane)    | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| Heptachlor             | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| Aldrin                 | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| Heptachlor epoxide     | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| Endosulfan I           | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| Dieldrin               | ug/L                                  | NS                                    | 0.1 UJ                          | 0.1 U                           | NS                                      | 0.1 U                                   | 0.1 UJ                                  | 0.1 U                                |
| 4,4'-DDE               | ug/L                                  | NS                                    | 0.1 UJ                          | 0.1 U                           | NS                                      | 0.1 U                                   | 0.1 UJ                                  | 0.1 U                                |
| Endrin                 | ug/L                                  | NS                                    | 0.1 UJ                          | 0.1 U                           | NS                                      | 0.1 U                                   | 0.1 UJ                                  | 0.1 U                                |
| Endosulfan II          | ug/L                                  | NS                                    | 0.1 UJ                          | 0.1 U                           | NS                                      | 0.1 U                                   | 0.1 UJ                                  | 0.1 U                                |
| 4,4'-DDD               | ug/L                                  | NS                                    | 0.1 UJ                          | 0.1 U                           | NS                                      | 0.1 U                                   | 0.1 UJ                                  | 0.1 U                                |
| Endosulfan sulfate     | ug/L                                  | NS                                    | 0.1 UJ                          | 0.1 U                           | NS                                      | 0.1 U                                   | 0.1 UJ                                  | 0.1 U                                |
| 4,4'-DDT               | ug/L                                  | NS                                    | 0.1 UJ                          | 0.1 U                           | NS                                      | 0.1 U                                   | 0.1 UJ                                  | 0.1 U                                |
| Methoxychlor           | ug/L                                  | NS                                    | 0.5 UJ                          | 0.5 U                           | NS                                      | 0.5 U                                   | 0.5 UJ                                  | 0.51 U                               |
| Endrin ketone          | ug/L                                  | NS                                    | 0.1 UJ                          | 0.1 U                           | NS                                      | 0.1 U                                   | 0.1 UJ                                  | 0.1 U                                |
| Endrin aldehyde        | ug/L                                  | NS                                    | 0.1 UJ                          | 0.1 U                           | NS                                      | 0.1 U                                   | 0.1 UJ                                  | 0.1 U                                |
| alpha-Chlordane        | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| gamma-Chlordane        | ug/L                                  | NS                                    | 0.05 UJ                         | 0.05 U                          | NS                                      | 0.05 U                                  | 0.05 UJ                                 | 0.051 U                              |
| Toxaphene              | ug/L                                  | NS                                    | 5 UJ                            | 5 U                             | NS                                      | 5 U                                     | 5 UJ                                    | 5.1 U                                |
| Aroclor-1016           | ug/L                                  | NS                                    | 1 UJ                            | 1 U                             | NS                                      | 1 U                                     | 1 UJ                                    | 1 U                                  |
| Aroclor-1221           | ug/L                                  | NS                                    | 2 UJ                            | 2 U                             | NS                                      | 2 U                                     | 2 UJ                                    | 2 U                                  |
| Aroclor-1232           | ug/L                                  | NS                                    | 1 UJ                            | 1 U                             | NS                                      | 1 U                                     | 1 UJ                                    | 1 U                                  |
| Aroclor-1242           | ug/L                                  | NS                                    | 1 UJ                            | 1 U                             | NS                                      | 1 U                                     | 1 UJ                                    | 1 U                                  |
| Aroclor-1248           | ug/L                                  | NS                                    | 1 UJ                            | 1 U                             | NS                                      | 1 U                                     | 1 UJ                                    | 1 U                                  |
| Aroclor-1254           | ug/L                                  | NS                                    | 1 UJ                            | 1 U                             | NS                                      | 1 U                                     | 1 UJ                                    | 1 U                                  |
| Aroclor-1260           | ug/L                                  | NS                                    | 1 UJ                            | 1 U                             | NS                                      | 1 U                                     | 1 UJ                                    | 1 U                                  |
| <b>HERBICIDES</b>      |                                       |                                       |                                 |                                 |   |   |   |                                      |
| 2,4-D                  | ug/L                                  | NS                                    | 1 U                             | 1 R                             | 1 R                                     | 1 U                                     | 1 U                                     | 1 U                                  |
| 2,4-DB                 | ug/L                                  | NS                                    | 1 U                             | 1 R                             | 1 R                                     | 1 U                                     | 1 U                                     | 1 U                                  |
| 2,4,6-T                | ug/L                                  | NS                                    | 0.1 U                           | 0.1 R                           | 0.1 R                                   | 0.1 U                                   | 0.1 U                                   | 0.1 U                                |
| 2,4,6-TP (Silvex)      | ug/L                                  | NS                                    | 0.1 U                           | 0.1 R                           | 0.1 R                                   | 0.1 U                                   | 0.1 U                                   | 0.1 U                                |
| Dalapon                | ug/L                                  | NS                                    | 2.3 U                           | 2.3 R                           | 2.7 J                                   | 2.3 U                                   | 2.3 U                                   | 2.3 U                                |
| Dicamba                | ug/L                                  | NS                                    | 0.1 U                           | 0.1 R                           | 0.1 R                                   | 0.1 U                                   | 0.1 U                                   | 0.1 U                                |
| Dichloroprop           | ug/L                                  | NS                                    | 1 U                             | 1 R                             | 1 R                                     | 1 U                                     | 1 U                                     | 1 U                                  |
| Dinoseb                | ug/L                                  | NS                                    | 0.5 U                           | 0.5 R                           | 0.5 R                                   | 0.5 U                                   | 0.5 U                                   | 0.51 U                               |
| MCPA                   | ug/L                                  | NS                                    | 100 U                           | 100 R                           | 100 R                                   | 100 U                                   | 100 U                                   | 100 U                                |
| MCPP                   | ug/L                                  | NS                                    | 100 U                           | 100 R                           | 100 R                                   | 100 U                                   | 100 U                                   | 100 U                                |
| <b>METALS</b>          |                                       |                                       |                                 |                                 |   |   |   |                                      |
| Aluminum               | ug/L                                  | NS                                    | 31200                           | 47700                           | NS                                      | 248                                     | 4140 J                                  | 226000                               |
| Antimony               | ug/L                                  | NS                                    | 49.7 UJ                         | 58.1 R                          | NS                                      | 54.2 R                                  | 49.5 U                                  | 191 J                                |
| Arsenic                | ug/L                                  | NS                                    | 2.8 J                           | 8.3 J                           | NS                                      | 1.4 U                                   | 1.9 U                                   | 1.4 UJ                               |
| Barium                 | ug/L                                  | NS                                    | 271                             | 325                             | NS                                      | 151 J                                   | 117 J                                   | 1480                                 |
| Beryllium              | ug/L                                  | NS                                    | 2.2 J                           | 2.5 J                           | NS                                      | 0.9 U                                   | 0.99 U                                  | 11.7                                 |
| Cadmium                | ug/L                                  | NS                                    | 2.5 U                           | 2.8 U                           | NS                                      | 2.8 U                                   | 2.5 U                                   | 2.8 U                                |
| Calcium                | ug/L                                  | NS                                    | 23700 R                         | 165000                          | NS                                      | 54800                                   | 5580                                    | 257000                               |
| Chromium               | ug/L                                  | NS                                    | 23.8 J                          | 78.2                            | NS                                      | 2.7 U                                   | 7.1 J                                   | 351 J                                |
| Cobalt                 | ug/L                                  | NS                                    | 8.3 J                           | 54.6                            | NS                                      | 5.5 U                                   | 5.4 U                                   | 201                                  |
| Copper                 | ug/L                                  | NS                                    | 13.9 J                          | 70.5                            | NS                                      | 5.5 J                                   | 4.7 UJ                                  | 272                                  |
| Iron                   | ug/L                                  | NS                                    | 24800                           | 80800 J                         | NS                                      | 507 J                                   | 5310 J                                  | 379000                               |
| Lead                   | ug/L                                  | NS                                    | 14                              | 25.8                            | NS                                      | 0.59 U                                  | 1.3 J                                   | 44.3                                 |
| Magnesium              | ug/L                                  | NS                                    | 11700                           | 34400                           | NS                                      | 20700                                   | 2950 J                                  | 100000                               |
| Manganese              | ug/L                                  | NS                                    | 340                             | 2500                            | NS                                      | 145                                     | 85.2                                    | 10500                                |
| Mercury                | ug/L                                  | NS                                    | 0.09 UJ                         | 0.09 UJ                         | NS                                      | 0.09 UJ                                 | 0.09 U                                  | 0.13 J                               |
| Nickel                 | ug/L                                  | NS                                    | 33.4 J                          | 107                             | NS                                      | 7.5 U                                   | 7.4 UJ                                  | 533 J                                |
| Potassium              | ug/L                                  | NS                                    | 5020                            | 8280                            | NS                                      | 2910 J                                  | 2670 J                                  | 24800                                |
| Selenium               | ug/L                                  | NS                                    | 1.5 UJ                          | 1.5 U                           | NS                                      | 1.8 U                                   | 1 UJ                                    | 1.5 UJ                               |
| Silver                 | ug/L                                  | NS                                    | 5.5 U                           | 5.5 U                           | NS                                      | 5.5 U                                   | 5.4 U                                   | 5.4 U                                |
| Sodium                 | ug/L                                  | NS                                    | 126000                          | 23000                           | NS                                      | 29500                                   | 114000                                  | 19500                                |
| Thallium               | ug/L                                  | NS                                    | 2.6 U                           | 2.8 U                           | NS                                      | 2.8 U                                   | 2.8 U                                   | 2.6 U                                |
| Vanadium               | ug/L                                  | NS                                    | 26.1 J                          | 71.2                            | NS                                      | 6.8 U                                   | 6.7 UJ                                  | 317 J                                |
| Zinc                   | ug/L                                  | NS                                    | 111                             | 264                             | NS                                      | 6 J                                     | 57.9 R                                  | 1100                                 |
| Cyanide                | ug/L                                  | NS                                    | 10 UJ                           | 1.8 J                           | NS                                      | 2.1 J                                   | 1.2 U                                   | 10 UJ                                |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER |
|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| DATE                       | MW57D          | MW58D          | MW80           | MW82           | MW84           | MW86           | MW88           |
| ES ID                      | 07/02/93       | 07/10/93       | 07/13/93       | 07/10/93       | 07/15/93       | 07/14/93       | 07/10/93       |
| LAB ID                     | MW57D          | MW58D          | MW80           | MW82           | MW84           | MW86           | MW88           |
| UNITS                      | 188184         | 188724         | 188804         | 188726         | 189111         | 189027         | 188727         |
| Chloromethane              | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Bromomethane               | ug/L           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Vinyl Chloride             | 10 U           | 10 U           | 10 U           | 10 U           | 23000          | 10 U           | 10 U           |
| Chloroethane               | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Methylene Chloride         | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Acetone                    | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Carbon Disulfide           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,1-Dichloroethane         | 10 U           | 10 U           | 10 U           | 10 U           | 170            | 10 U           | 10 U           |
| 1,1-Dichloroethane         | 10 U           | 10 U           | 10 U           | 10 U           | 150            | 10 U           | 10 U           |
| 1,2-Dichloroethane (total) | 10 U           | 10 U           | 47             | 80             | 74000          | 120            | 10 U           |
| Chloroform                 | 10 U           | 10 U           | 10 U           | 10 U           | 5 J            | 10 U           | 10 U           |
| 1,2-Dichloroethane         | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| 2-Butanone                 | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,1,1-Trichloroethane      | 10 U           | 10 U           | 10 U           | 10 U           | 72             | 10 U           | 10 U           |
| Carbon Tetrachloride       | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Vinyl Acetate              | NS             | NS             | NS             | NS             | NS             | NS             | NS             |
| Bromodichloromethane       | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,2-Dichloropropane        | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| cis-1,3-Dichloropropene    | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Trichloroethene            | 10 U           | 10 U           | 200            | 5 J            | 37000          | 46             | 10 U           |
| Dibromochloromethane       | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| 1,1,2-Trichloroethane      | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Benzene                    | 10 U           | 10 U           | 10 U           | 10 U           | 150            | 10 U           | 10 U           |
| trans-1,3-Dichloropropene  | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Bromoform                  | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| 4-Methyl-2-Pentanone       | 10 U           | 10 U           | 10 U           | 10 U           | 77             | 10 U           | 10 U           |
| 2-Hexanone                 | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Tetrachloroethane          | 10 U           | 10 U           | 10 U           | 10 U           | 2 J            | 10 U           | 10 U           |
| 1,1,2,2-Tetrachloroethane  | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Toluene                    | 10 U           | 10 U           | 10 U           | 10 U           | 900 J          | 10 U           | 10 U           |
| Chlorobenzene              | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Ethylbenzene               | 10 U           | 10 U           | 10 U           | 10 U           | 100            | 10 U           | 10 U           |
| Styrene                    | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           | 10 U           |
| Xylene (total)             | 10 U           | 10 U           | 10 U           | 10 U           | 640            | 10 U           | 10 U           |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DATE ES ID LAB ID | PHASE II WATER MW67D 07/02/93 MW67D 188154 | PHASE II WATER MW68D 07/10/93 MW68D 188724 | PHASE II WATER MW60 07/13/93 MW60 188804 | PHASE II WATER MW82 07/10/93 MW82 188726 | PHASE II WATER MW64 07/16/93 MW64 189111 | PHASE II WATER MW66 07/14/93 MW66 189027 | PHASE II WATER MW68 07/10/93 MW68 188727 |
|-----------------------------------|--|--|--|--|--|--|--|
| COMPOUND                          | UNITS                                      |  |  |  |  |  |  |
| VOC's (824.2)                     |  |  |  |  |  |  |  |
| Dichlorodifluoromethane           | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Chloromethane                     | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Vinyl Chloride                    | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Bromomethane                      | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Chloroethane                      | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Trichlorofluoromethane            | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,1-Dichloroethene                | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Acetone                           | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Carbon Disulfide                  | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Methylene Chloride                | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| trans-1,2-Dichloroethene          | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,1-Dichloroethane                | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 2,2-Dichloropropane               | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| cis-1,2-Dichloroethene            | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 2-Butanone                        | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Bromochloromethane                | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Chloroform                        | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,1,1-Trichloroethane             | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Carbon Tetrachloride              | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,1-Dichloropropane               | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Benzene                           | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,2-Dichloroethane                | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Trichloroethene                   | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,2-Dichloropropane               | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Dibromomethane                    | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Bromodichloromethane              | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| cis-1,3-Dichloropropene           | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 4-Methyl-2-Pentanone              | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Toluene                           | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| trans-1,3-Dichloropropene         | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,1,2-Trichloroethane             | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Tetrachloroethene                 | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,3-Dichloropropane               | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 2-Hexanone                        | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Dibromochloromethane              | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,2-Dibromoethane                 | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Chlorobenzene                     | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,1,1,2-Tetrachloroethane         | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Ethylbenzene                      | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Styrene                           | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Bromoform                         | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Isopropylbenzene                  | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Bromobenzene                      | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,1,2,2-Tetrachloroethane         | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,2,3-Trichloropropane            | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| n-Propylbenzene                   | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 2-Chlorotoluene                   | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 4-Chlorotoluene                   | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,3,5-Trimethylbenzene            | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| tert-Butylbenzene                 | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,2,4-Trimethylbenzene            | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| sec-Butylbenzene                  | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,3-Dichlorobenzene               | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,4-Dichlorobenzene               | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| p-Isopropyltoluene                | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,2-Dichlorobenzene               | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| n-Butylbenzene                    | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,2-Dibromo-3-Chloropropane       | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,2,4-Trichlorobenzene            | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Hexachlorobutadiene               | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Naphthalene                       | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| 1,2,3-Trichlorobenzene            | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |
| Xylene (total)                    | ug/L                                       | NS   | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | PHASE II WATER MW57D | PHASE II WATER MW56D | PHASE II WATER MW80 | PHASE II WATER MW82 | PHASE II WATER MW84 | PHASE II WATER MW98 | PHASE II WATER MW98 |
|------------------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DATE                         | 07/02/93             | 07/10/93             | 07/13/93            | 07/10/93            | 07/16/93            | 07/14/93            | 07/10/93            |
| ES ID                        | MW57D                | MW56D                | MW80                | MW82                | MW84                | MW98                | MW98                |
| LAB ID                       | 186154               | 188724               | 188804              | 188726              | 189111              | 189027              | 188727              |
| COMPOUND                     | UNITS                |                      |                     |                     |                     |                     |                     |
| SEMIVOLATILES                |                      |                      |                     |                     |                     |                     |                     |
| Phenol                       | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| bis(2-Chloroethyl) ether     | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2-Chlorophenol               | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 1,3-Dichlorobenzene          | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 1,4-Dichlorobenzene          | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Benzyl Alcohol               | ug/L                 | NS                   | NS                  | NS                  | NS                  | NS                  | NS                  |
| 1,2-Dichlorobenzene          | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2-Methylphenol               | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| bis(2-Chloroisopropyl) ether | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 4-Methylphenol               | ug/L                 | 10 U                 | 10 U                | 10 U                | 6 J                 | 10 U                | 10 U                |
| N-Nitroso-di-n-propylamine   | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Hexachloroethane             | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Nitrobenzene                 | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Isophorone                   | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2-Nitrophenol                | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2,4-Dimethylphenol           | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Benzole acid                 | ug/L                 | NS                   | NS                  | NS                  | NS                  | NS                  | NS                  |
| bis(2-Chloroethoxy) methane  | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2,4-Dichlorophenol           | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 1,2,4-Trichlorobenzene       | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Naphthalene                  | ug/L                 | 10 U                 | 10 U                | 10 U                | 66 J                | 10 U                | 10 U                |
| 4-Chloroaniline              | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Hexachlorobutadiene          | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 4-Chloro-3-methylphenol      | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2-Methylnaphthalene          | ug/L                 | 10 U                 | 10 U                | 10 U                | 13 J                | 10 U                | 10 U                |
| Hexachlorocyclopentadiene    | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2,4,6-Trichlorophenol        | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2,4,6-Trichlorophenol        | ug/L                 | 25 U                 | 25 U                | 25 U                | 25 U                | 25 U                | 25 U                |
| 2-Chloronaphthalene          | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2-Nitroaniline               | ug/L                 | 25 U                 | 25 U                | 25 U                | 25 U                | 25 U                | 25 U                |
| Dimethylphthalate            | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Acenaphthylene               | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2,6-Dinitrotoluene           | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 3-Nitroaniline               | ug/L                 | 25 U                 | 25 U                | 25 U                | 25 U                | 25 U                | 25 U                |
| Acenaphthene                 | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2,4-Dinitrophenol            | ug/L                 | 25 U                 | 25 U                | 25 U                | 25 U                | 25 U                | 25 U                |
| 4-Nitrophenol                | ug/L                 | 25 U                 | 25 U                | 25 U                | 25 U                | 25 U                | 25 U                |
| Dibenzofuran                 | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 2,4-Dinitrotoluene           | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Diethylphthalate             | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 4-Chlorophenyl-phenylether   | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Fluorene                     | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 4-Nitroaniline               | ug/L                 | 25 U                 | 25 U                | 25 U                | 25 U                | 25 U                | 25 U                |
| 4,6-Dinitro-2-methylphenol   | ug/L                 | 25 U                 | 25 U                | 25 U                | 25 U                | 25 U                | 25 U                |
| N-Nitrosodiphenylamine (1)   | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 4-Bromophenyl-phenylether    | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Hexachlorobenzene            | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Perchlorophenol              | ug/L                 | 25 U                 | 25 U                | 25 U                | 25 U                | 25 U                | 25 U                |
| Phenanthrene                 | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Anthracene                   | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Carbazole                    | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Di-n-butylphthalate          | ug/L                 | 10 U                 | 10 U                | 2 J                 | 2 J                 | 0.6 J               | 9 J                 |
| Fluoranthene                 | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Pyrene                       | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Butylbenzylphthalate         | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| 3,3'-Dichlorobenzidine       | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Benzo(a)anthracene           | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Chrysene                     | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| bis(2-Ethylhexyl)phthalate   | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Di-n-octylphthalate          | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Benzofluoranthene            | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Benzo(k)fluoranthene         | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Benzofluoranthene            | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Indeno(1,2,3-cd)pyrene       | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Dibenz(a,h)anthracene        | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |
| Benzo(g,h,i)perylene         | ug/L                 | 10 U                 | 10 U                | 10 U                | 10 U                | 10 U                | 10 U                |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER | PHASE II WATER |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| ES ID                  | MW67D          | MW68D          | MW80           | MW82           | MW84           | MW86           | MW88           | MW90           |
| DATE                   | 07/10/93       | 07/10/93       | 07/13/93       | 07/13/93       | 07/15/93       | 07/15/93       | 07/15/93       | 07/15/93       |
| LAB ID                 | MW67D          | MW68D          | MW80           | MW82           | MW84           | MW86           | MW88           | MW90           |
| UNITS                  | 186154         | 186724         | 188804         | 186728         | 189111         | 189027         |                | 186727         |
| COMPOUND               |                |                |                |                |                |                |                |                |
| <b>PESTICIDES/PCBS</b> |                |                |                |                |                |                |                |                |
| alpha-BHC              | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| beta-BHC               | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| delta-BHC              | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| gamma-BHC (lindane)    | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| Heptachlor             | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| Aldrin                 | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| Heptachlor epoxide     | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| Endosulfan I           | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| Dieldrin               | ug/L           | 0.1 UJ         | 0.1 UJ         | 0.1 U          | 0.1 U          | 0.11 U         | 0.1 U          | 0.1 UJ         |
| 4,4'-DDE               | ug/L           | 0.1 UJ         | 0.1 UJ         | 0.1 U          | 0.1 U          | 0.11 U         | 0.1 U          | 0.1 UJ         |
| Endrin                 | ug/L           | 0.1 UJ         | 0.1 UJ         | 0.1 U          | 0.1 U          | 0.11 U         | 0.1 U          | 0.1 UJ         |
| Endosulfan II          | ug/L           | 0.1 UJ         | 0.1 UJ         | 0.1 U          | 0.1 U          | 0.11 U         | 0.1 U          | 0.1 UJ         |
| 4,4'-DDD               | ug/L           | 0.1 UJ         | 0.1 UJ         | 0.1 U          | 0.1 U          | 0.11 U         | 0.1 U          | 0.1 UJ         |
| Endosulfan sulfate     | ug/L           | 0.1 UJ         | 0.1 UJ         | 0.1 U          | 0.1 U          | 0.11 U         | 0.1 U          | 0.1 UJ         |
| 4,4'-DDT               | ug/L           | 0.1 UJ         | 0.1 UJ         | 0.1 U          | 0.1 U          | 0.11 U         | 0.1 U          | 0.1 UJ         |
| Methoxychlor           | ug/L           | 0.82 UJ        | 0.5 UJ         | 0.8 U          | 0.8 U          | 0.85 U         | 0.82 U         | 0.5 UJ         |
| Endrin ketone          | ug/L           | 0.1 UJ         | 0.1 UJ         | 0.1 U          | 0.1 U          | 0.11 U         | 0.1 U          | 0.1 UJ         |
| Endrin aldehyde        | ug/L           | 0.1 UJ         | 0.1 UJ         | 0.1 U          | 0.1 U          | 0.11 U         | 0.1 U          | 0.1 UJ         |
| alpha-Chlordane        | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| gamma-Chlordane        | ug/L           | 0.082 UJ       | 0.05 UJ        | 0.05 U         | 0.05 U         | 0.055 U        | 0.082 U        | 0.05 UJ        |
| Toxaphene              | ug/L           | 8.2 UJ         | 5 UJ           | 8 U            | 8 U            | 8.5 U          | 8.2 U          | 5 UJ           |
| Aroclor-1016           | ug/L           | 1 UJ           | 1 UJ           | 1 U            | 1 U            | 1.1 U          | 1 U            | 1 UJ           |
| Aroclor-1221           | ug/L           | 2.1 UJ         | 2 UJ           | 2 U            | 2 U            | 2.2 U          | 2.1 U          | 2 UJ           |
| Aroclor-1232           | ug/L           | 1 UJ           | 1 UJ           | 1 U            | 1 U            | 1.1 U          | 1 U            | 1 UJ           |
| Aroclor-1242           | ug/L           | 1 UJ           | 1 UJ           | 1 U            | 1 U            | 1.1 U          | 1 U            | 1 UJ           |
| Aroclor-1248           | ug/L           | 1 UJ           | 1 UJ           | 1 U            | 1 U            | 1.1 U          | 1 U            | 1 UJ           |
| Aroclor-1254           | ug/L           | 1 UJ           | 1 UJ           | 1 U            | 1 U            | 1.1 U          | 1 U            | 1 UJ           |
| Aroclor-1260           | ug/L           | 1 UJ           | 1 UJ           | 1 U            | 1 U            | 1.1 U          | 1 U            | 1 UJ           |
| <b>HERBICIDES</b>      |                |                |                |                |                |                |                |                |
| 2,4-D                  | ug/L           | 1 U            | 1 U            | 1 U            | 1 U            | 1.2 U          | 1 U            | 1 U            |
| 2,4-DB                 | ug/L           | 1 U            | 1 U            | 1 U            | 1 U            | 1.2 U          | 1 U            | 1 U            |
| 2,4,5-T                | ug/L           | 0.1 U          | 0.1 U          | 0.1 U          | 0.1 U          | 0.12 U         | 0.1 U          | 0.1 U          |
| 2,4,5-TP (Silvex)      | ug/L           | 0.1 U          | 0.1 U          | 0.1 U          | 0.1 U          | 0.12 U         | 0.1 U          | 0.1 U          |
| Dalapon                | ug/L           | 2.3 U          | 2.3 U          | 2.3 U          | 2.3 U          | 2.7 U          | 2.3 U          | 2.3 U          |
| Dicamba                | ug/L           | 0.1 U          | 0.1 U          | 0.1 U          | 0.1 U          | 0.18 U         | 0.1 U          | 0.1 U          |
| Dichloroprop           | ug/L           | 1 U            | 1 U            | 1 U            | 1 U            | 1.2 U          | 1 U            | 1 U            |
| Dinoseb                | ug/L           | 0.5 U          | 0.5 U          | 0.5 U          | 0.5 U          | 0.58 U         | 0.5 U          | 0.5 U          |
| MCPA                   | ug/L           | 100 U          | 100 U          | 100 U          | 100 U          | 120 U          | 100 U          | 100 U          |
| MCPP                   | ug/L           | 100 U          | 100 U          | 100 U          | 100 U          | 120 U          | 100 U          | 100 U          |
| <b>METALS</b>          |                |                |                |                |                |                |                |                |
| Aluminum               | ug/L           | 18500          | 40100          | 84.7 J         | 142 J          | 45800 J        | 91200          | 78500          |
| Antimony               | ug/L           | 49.6 UJ        | 49.6 UJ        | 77.2 R         | 60 UJ          | 77.7           | 84.8 R         | 60 UJ          |
| Arsenic                | ug/L           | 2.8 J          | 3.3 J          | 1.4 U          | 1.4 UJ         | 6.3 J          | 2.3 J          | 4.3 J          |
| Barium                 | ug/L           | 617            | 706            | 84.2 J         | 48.8 J         | 406            | 1190           | 1080           |
| Beryllium              | ug/L           | 1.2 J          | 3.8 J          | 0.88 U         | 0.9 U          | 2.4 J          | 4 J            | 5.4            |
| Cadmium                | ug/L           | 2.8 U          | 2.8 U          | 2.8 U          | 2.8 U          | 2.8 U          | 2.8 U          | 2.8 U          |
| Calcium                | ug/L           | 61600          | 71400          | 116000         | 113000         | 385000         | 481000         | 75100          |
| Chromium               | ug/L           | 32.2 J         | 59.2 J         | 2.7 U          | 2.7 UJ         | 77.8 J         | 143            | 111 J          |
| Cobalt                 | ug/L           | 11.3 J         | 19.8 J         | 8.8 U          | 8.8 U          | 40.3 J         | 67.4           | 36.7 J         |
| Copper                 | ug/L           | 18.1 J         | 32.3           | 8.8 J          | 4.7 U          | 48.2 J         | 75.4           | 53.2           |
| Iron                   | ug/L           | 31000          | 60200          | 93.8 J         | 162            | 75700 J        | 141000 J       | 91100          |
| Lead                   | ug/L           | 6.7            | 13.6           | 0.6 U          | 0.6 U          | 132            | 20.1           | 16.3           |
| Magnesium              | ug/L           | 12300          | 19100          | 11400          | 12700          | 54700          | 57900          | 31300          |
| Manganese              | ug/L           | 791            | 1100           | 8.4 J          | 32.3           | 7590           | 3290           | 1410           |
| Mercury                | ug/L           | 0.09 UJ        | 0.09 UJ        | 0.09 UJ        | 0.09 UJ        | 0.18 U         | 0.25 J         | 0.09 UJ        |
| Nickel                 | ug/L           | 37.3 J         | 85.9 J         | 7.4 U          | 7.5 UJ         | 99 J           | 169            | 118 J          |
| Potassium              | ug/L           | 4830 J         | 11200          | 1580 J         | 1260 J         | 11600          | 16400          | 21700          |
| Selenium               | ug/L           | 1.5 UJ         | 1.5 UJ         | 1.5 U          | 1.5 UJ         | 8.9 UJ         | 1.5 U          | 1.5 UJ         |
| Silver                 | ug/L           | 8.5 U          | 8.5 U          | 8.5 U          | 8.5 U          | 8.5 U          | 8.5 U          | 8.5 U          |
| Sodium                 | ug/L           | 148000         | 147000         | 28800          | 14800          | 38400          | 11900          | 149000         |
| Thallium               | ug/L           | 2.6 U          | 2.6 U          | 2.6 U          | 2.6 U          | 2.6 U          | 2.6 U          | 2.6 U          |
| Vanadium               | ug/L           | 26.8 J         | 67.1 J         | 6.8 U          | 6.8 UJ         | 94.6 J         | 126            | 123 J          |
| Zinc                   | ug/L           | 67.2           | 122            | 3.1 J          | 7.2 R          | 267 J          | 383            | 186            |
| Cyanide                | ug/L           | 10 UJ          | 3.8 UJ         | 4 J            | 1.2 UJ         | 3.4 J          | 1.2 U          | 3.5 UJ         |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX<br>LOCATION<br>DATE<br>ES ID<br>LAB ID | PHASE II<br>WATER<br>MW08RE<br>MW88RE<br>185727 |
|----------------------------|---|---|
| Chloromethane              | ug/L  | NS  |
| Bromomethane               | ug/L  | NS  |
| Vinyl Chloride             | ug/L  | NS  |
| Chloroethane               | ug/L  | NS  |
| Methylene Chloride         | ug/L  | NS  |
| Acetone                    | ug/L  | NS  |
| Carbon Disulfide           | ug/L  | NS  |
| 1,1-Dichloroethene         | ug/L  | NS  |
| 1,1-Dichloroethane         | ug/L  | NS  |
| 1,2-Dichloroethene (total) | ug/L  | NS  |
| Chloroform                 | ug/L  | NS  |
| 1,2-Dichloroethane         | ug/L  | NS  |
| 2-Butanone                 | ug/L  | NS  |
| 1,1,1-Trichloroethane      | ug/L  | NS  |
| Carbon Tetrachloride       | ug/L  | NS  |
| Vinyl Acetate              | ug/L  | NS  |
| Bromodichloromethane       | ug/L  | NS  |
| 1,2-Dichloropropane        | ug/L  | NS  |
| cis-1,3-Dichloropropene    | ug/L  | NS  |
| Trichloroethene            | ug/L  | NS  |
| Dibromochloromethane       | ug/L  | NS  |
| 1,1,2-Trichloroethane      | ug/L  | NS  |
| Benzene                    | ug/L  | NS  |
| trans-1,3-Dichloropropene  | ug/L  | NS  |
| Bromoform                  | ug/L  | NS  |
| 4-Methyl-2-Pentanone       | ug/L  | NS  |
| 2-Hexanone                 | ug/L  | NS  |
| Tetrachloroethene          | ug/L  | NS  |
| 1,1,2,2-Tetrachloroethane  | ug/L  | NS  |
| Toluene                    | ug/L  | NS  |
| Chlorobenzene              | ug/L  | NS  |
| Ethylbenzene               | ug/L  | NS  |
| Styrene                    | ug/L  | NS  |
| Xylene (total)             | ug/L  | NS  |



SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                    | MATRIX   | PHASE II |
|-----------------------------|----------|----------|
|                             | LOCATION | WATER    |
|                             | DATE     | MW#8RE   |
|                             | ES ID    | MW#8RE   |
|                             | LAB ID   | 186727   |
|                             | UNITS    |          |
| VOC's (824.2)               |          |          |
| Dichlorodifluoromethane     | ug/L     | NS       |
| Chloromethane               | ug/L     | NS       |
| Vinyl Chloride              | ug/L     | NS       |
| Bromomethane                | ug/L     | NS       |
| Chloroethane                | ug/L     | NS       |
| Trichlorofluoromethane      | ug/L     | NS       |
| 1,1-Dichloroethene          | ug/L     | NS       |
| Acetone                     | ug/L     | NS       |
| Carbon Disulfide            | ug/L     | NS       |
| Methylene Chloride          | ug/L     | NS       |
| trans-1,2-Dichloroethene    | ug/L     | NS       |
| 1,1-Dichloroethane          | ug/L     | NS       |
| 2,2-Dichloropropane         | ug/L     | NS       |
| cis-1,2-Dichloroethene      | ug/L     | NS       |
| 2-Butanone                  | ug/L     | NS       |
| Bromochloromethane          | ug/L     | NS       |
| Chloroform                  | ug/L     | NS       |
| 1,1,1-Trichloroethane       | ug/L     | NS       |
| Carbon Tetrachloride        | ug/L     | NS       |
| 1,1-Dichloropropene         | ug/L     | NS       |
| Benzene                     | ug/L     | NS       |
| 1,2-Dichloroethane          | ug/L     | NS       |
| Trichloroethene             | ug/L     | NS       |
| 1,2-Dichloropropane         | ug/L     | NS       |
| Dibromomethane              | ug/L     | NS       |
| Bromodichloromethane        | ug/L     | NS       |
| cis-1,3-Dichloropropene     | ug/L     | NS       |
| 4-Methyl-2-Pentanone        | ug/L     | NS       |
| Toluene                     | ug/L     | NS       |
| trans-1,3-Dichloropropene   | ug/L     | NS       |
| 1,1,2-Trichloroethane       | ug/L     | NS       |
| Tetrachloroethene           | ug/L     | NS       |
| 1,3-Dichloropropane         | ug/L     | NS       |
| 2-Hexanone                  | ug/L     | NS       |
| Dibromochloromethane        | ug/L     | NS       |
| 1,2-Dibromoethane           | ug/L     | NS       |
| Chlorobenzene               | ug/L     | NS       |
| 1,1,1,2-Tetrachloroethane   | ug/L     | NS       |
| Ethylbenzene                | ug/L     | NS       |
| Styrene                     | ug/L     | NS       |
| Bromoform                   | ug/L     | NS       |
| Isopropylbenzene            | ug/L     | NS       |
| Bromobenzene                | ug/L     | NS       |
| 1,1,2,2-Tetrachloroethane   | ug/L     | NS       |
| 1,2,3-Trichloropropane      | ug/L     | NS       |
| n-Propylbenzene             | ug/L     | NS       |
| 2-Chlorotoluene             | ug/L     | NS       |
| 4-Chlorotoluene             | ug/L     | NS       |
| 1,3,5-Trimethylbenzene      | ug/L     | NS       |
| tert-Butylbenzene           | ug/L     | NS       |
| 1,2,4-Trimethylbenzene      | ug/L     | NS       |
| sec-Butylbenzene            | ug/L     | NS       |
| 1,3-Dichlorobenzene         | ug/L     | NS       |
| 1,4-Dichlorobenzene         | ug/L     | NS       |
| p-Isopropyltoluene          | ug/L     | NS       |
| 1,2-Dichlorobenzene         | ug/L     | NS       |
| n-Butylbenzene              | ug/L     | NS       |
| 1,2-Dibromo-3-Chloropropane | ug/L     | NS       |
| 1,2,4-Trichlorobenzene      | ug/L     | NS       |
| Hexachlorobutadiene         | ug/L     | NS       |
| Naphthalene                 | ug/L     | NS       |
| 1,2,3-Trichlorobenzene      | ug/L     | NS       |
| Xylene (total)              | ug/L     |          |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND                     | MATRIX<br>LOCATION<br>DATE<br>ES ID<br>LAB ID<br>UNITS | PHASE II<br>WATER<br>MW88RE<br>07/10/93<br>MW88RE<br>188727 |
|------------------------------|--|---|
| SEMI-VOLATILES               |  |   |
| Phenol                       | ug/L   | 10 U  |
| bis(2-Chloroethyl) ether     | ug/L   | 10 U  |
| 2-Chlorophenol               | ug/L   | 10 U  |
| 1,3-Dichlorobenzene          | ug/L   | 10 U  |
| 1,4-Dichlorobenzene          | ug/L   | 10 U  |
| Benzyl Alcohol               | ug/L   | NS  |
| 1,2-Dichlorobenzene          | ug/L   | 10 U  |
| 2-Methylphenol               | ug/L   | 10 U  |
| bis(2-Chloroisopropyl) ether | ug/L   | 10 U  |
| 4-Methylphenol               | ug/L   | 10 U  |
| N-Nitrosod-n-propylamine     | ug/L   | 10 U  |
| Hexachloroethane             | ug/L   | 10 U  |
| Nitrobenzene                 | ug/L   | 10 U  |
| Isophorone                   | ug/L   | 10 U  |
| 2-Nitrophenol                | ug/L   | 10 U  |
| 2,4-Dimethylphenol           | ug/L   | 10 U  |
| Benzoic acid                 | ug/L   | NS  |
| bis(2-Chloroethoxy) methane  | ug/L   | 10 U  |
| 2,4-Dichlorophenol           | ug/L   | 10 U  |
| 1,2,4-Trichlorobenzene       | ug/L   | 10 U  |
| Naphthalene                  | ug/L   | 10 U  |
| 4-Chloroaniline              | ug/L   | 10 U  |
| Hexachlorobutadiene          | ug/L   | 10 U  |
| 4-Chloro-3-methylphenol      | ug/L   | 10 U  |
| 2-Methylnaphthalene          | ug/L   | 10 U  |
| Hexachlorocyclopentadiene    | ug/L   | 10 U  |
| 2,4,6-Trichlorophenol        | ug/L   | 10 U  |
| 2,4,8-Trichlorophenol        | ug/L   | 25 U  |
| 2-Chloronaphthalene          | ug/L   | 10 U  |
| 2-Nitroaniline               | ug/L   | 25 U  |
| Dimethylphthalate            | ug/L   | 10 U  |
| Acenaphthylene               | ug/L   | 10 U  |
| 2,6-Dinitrotoluene           | ug/L   | 10 U  |
| 3-Nitroaniline               | ug/L   | 25 U  |
| Acenaphthene                 | ug/L   | 10 U  |
| 2,4-Dinitrophenol            | ug/L   | 25 U  |
| 4-Nitrophenol                | ug/L   | 25 U  |
| Dibenzofuran                 | ug/L   | 10 U  |
| 2,4-Dinitrotoluene           | ug/L   | 10 U  |
| Diethylphthalate             | ug/L   | 10 U  |
| 4-Chlorophenyl-phenylether   | ug/L   | 10 U  |
| Fluorene                     | ug/L   | 10 U  |
| 4-Nitroaniline               | ug/L   | 25 U  |
| 4,6-Dinitro-2-methylphenol   | ug/L   | 25 U  |
| N-Nitrosodiphenylamine (1)   | ug/L   | 10 U  |
| 4-Bromophenyl-phenylether    | ug/L   | 10 U  |
| Hexachlorobenzene            | ug/L   | 10 U  |
| Pentachlorophenol            | ug/L   | 25 U  |
| Phenanthrene                 | ug/L   | 10 U  |
| Anthracene                   | ug/L   | 10 U  |
| Carbazole                    | ug/L   | 10 U  |
| Di-n-butylphthalate          | ug/L   | 10 U  |
| Fluoranthene                 | ug/L   | 10 U  |
| Pyrene                       | ug/L   | 10 U  |
| Butylbenzylphthalate         | ug/L   | 10 U  |
| 3,3'-Dichlorobenzidine       | ug/L   | 10 U  |
| Benzo(a)anthracene           | ug/L   | 10 U  |
| Chrysene                     | ug/L   | 10 U  |
| bis(2-Ethylhexyl)phthalate   | ug/L   | 10 U  |
| Di-n-octylphthalate          | ug/L   | 10 U  |
| Benzo(b)fluoranthene         | ug/L   | 10 U  |
| Benzo(k)fluoranthene         | ug/L   | 10 U  |
| Benzo(a)pyrene               | ug/L   | 10 U  |
| Indeno(1,2,3-cd)pyrene       | ug/L   | 10 U  |
| Dibenz(a,h)anthracene        | ug/L   | 10 U  |
| Benzo(g,h,i)perylene         | ug/L   | 10 U  |

SENECA ARMY DEPOT, ASH LANDFILL  
GROUNDWATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| COMPOUND            | MATRX    | PHASE II |
|---------------------|----------|----------|
|                     | LOCATION | WATER    |
|                     | DATE     | MWS&RE   |
|                     | ES ID    | 07/10/93 |
|                     | LAB ID   | MWS&RE   |
|                     | UNITS    | 166727   |
| PESTICIDES/PCBS     |          |          |
| alpha-BHC           | ug/L     | NS       |
| beta-BHC            | ug/L     | NS       |
| delta-BHC           | ug/L     | NS       |
| gamma-BHC (Lindane) | ug/L     | NS       |
| Heptachlor          | ug/L     | NS       |
| Aldrin              | ug/L     | NS       |
| Heptachlor epoxide  | ug/L     | NS       |
| Endosulfan I        | ug/L     | NS       |
| Dieldrin            | ug/L     | NS       |
| 4,4'-DDE            | ug/L     | NS       |
| Endrin              | ug/L     | NS       |
| Endosulfan II       | ug/L     | NS       |
| 4,4'-DDD            | ug/L     | NS       |
| Endosulfan sulfate  | ug/L     | NS       |
| 4,4'-DDT            | ug/L     | NS       |
| Methoxychlor        | ug/L     | NS       |
| Endrin ketone       | ug/L     | NS       |
| Endrin aldehyde     | ug/L     | NS       |
| alpha-Chlordane     | ug/L     | NS       |
| gamma-Chlordane     | ug/L     | NS       |
| Toxaphene           | ug/L     | NS       |
| Aroclor-1016        | ug/L     | NS       |
| Aroclor-1221        | ug/L     | NS       |
| Aroclor-1232        | ug/L     | NS       |
| Aroclor-1242        | ug/L     | NS       |
| Aroclor-1248        | ug/L     | NS       |
| Aroclor-1254        | ug/L     | NS       |
| Aroclor-1260        | ug/L     | NS       |
| HERBICIDES          |          |          |
| 2,4-D               | ug/L     | NS       |
| 2,4-DB              | ug/L     | NS       |
| 2,4,6-T             | ug/L     | NS       |
| 2,4,6-TP (Silvex)   | ug/L     | NS       |
| Dalapon             | ug/L     | NS       |
| Dicamba             | ug/L     | NS       |
| Dichloroprop        | ug/L     | NS       |
| Dinoseb             | ug/L     | NS       |
| MCPA                | ug/L     | NS       |
| MCPP                | ug/L     | NS       |
| METALS              |          |          |
| Aluminum            | ug/L     | NS       |
| Arsimony            | ug/L     | NS       |
| Arsenic             | ug/L     | NS       |
| Barium              | ug/L     | NS       |
| Beryllium           | ug/L     | NS       |
| Cadmium             | ug/L     | NS       |
| Calcium             | ug/L     | NS       |
| Chromium            | ug/L     | NS       |
| Cobalt              | ug/L     | NS       |
| Copper              | ug/L     | NS       |
| Iron                | ug/L     | NS       |
| Lead                | ug/L     | NS       |
| Magnesium           | ug/L     | NS       |
| Manganese           | ug/L     | NS       |
| Mercury             | ug/L     | NS       |
| Nickel              | ug/L     | NS       |
| Potassium           | ug/L     | NS       |
| Selenium            | ug/L     | NS       |
| Silver              | ug/L     | NS       |
| Sodium              | ug/L     | NS       |
| Thallium            | ug/L     | NS       |
| Vanadium            | ug/L     | NS       |
| Zinc                | ug/L     | NS       |
| Cyanide             | ug/L     | NS       |

SENECA ARMY DEPOT, ASH LANDFILL  
SURFACE WATER ANALYSIS RESULTS  
VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION            | DEPTH | DATE | ES ID | LAB ID | WATER SW-100 | WATER SW-100 | WATER SW-300 | WATER SW-400 | WATER SW-800 | WATER SW-800 | WATER SW-800 | WATER SW-800 | WATER ASH | WATER ASH | WATER ASH |
|----------------------------|-------|------|-------|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|-----------|-----------|
| COMPOUND                   | UNITS |      |       |        |              |              |              |              |              |              |              |              |           |           |           |
| Chloromethane              | µg/L  | 10 U | NS    | 10 U   | 10 U         | 10 U         | 10 U         | 10 U         | 10 U         | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Bromomethane               | µg/L  | 10 U | NS    | 10 U   | 10 U         | 10 U         | 10 U         | 10 U         | 10 U         | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Vinyl Chloride             | µg/L  | 10 U | NS    | 10 U   | 10 U         | 10 U         | 10 U         | 10 U         | 10 U         | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Chloroethane               | µg/L  | 10 U | NS    | 10 U   | 10 U         | 10 U         | 10 U         | 10 U         | 10 U         | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Methylene Chloride         | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Acetone                    | µg/L  | 10 U | NS    | 10 U   | 17 U         | 12 U         | 10 U         | 10 U         | 10 U         | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Carbon Disulfide           | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 1,1-Dichloroethane         | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 1,1-Dichloroethane         | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 1,2-Dichloroethane (total) | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Chloroform                 | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 1,2-Dichloroethane         | µg/L  | 10 U | NS    | 10 U   | 10 U         | 10 U         | 10 U         | 10 U         | 10 U         | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 2-Butanone                 | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 1,1,1-Trichloroethane      | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Carbon Tetrachloride       | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Vinyl Acetate              | µg/L  | 10 U | NS    | 10 U   | 10 U         | 10 U         | 10 U         | 10 U         | 10 U         | NS           | NS           | NS           | NS        | NS        | NS        |
| Bromodichloromethane       | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 1,2-Dichloropropane        | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| cis-1,3-Dichloropropane    | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Trichloroethane            | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Dibromochloromethane       | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 1,1,2-Trichloroethane      | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Benzene                    | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| trans-1,3-Dichloropropane  | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Bromoform                  | µg/L  | 10 U | NS    | 10 U   | 10 U         | 10 U         | 10 U         | 10 U         | 10 U         | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 4-Methyl-2-Pentanone       | µg/L  | 10 U | NS    | 10 U   | 10 U         | 10 U         | 10 U         | 10 U         | 10 U         | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 2-Hexanone                 | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Tetrachloroethane          | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| 1,1,2,2-Tetrachloroethane  | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Toluene                    | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Chlorobenzene              | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Ethylbenzene               | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Styrene                    | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |
| Xylene (total)             | µg/L  | 5 U  | NS    | 5 U    | 5 U          | 5 U          | 5 U          | 5 U          | 5 U          | NS           | NS           | NS           | 10 U      | 10 U      | 10 U      |

NOTE: "NS" = NOT SAMPLED

SENECA ARMY DEPOT, ASH LANDFILL  
 SURFACE WATER ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH DATE ESID LAB ID | WATER SW-100 N/A 12/10/91 W1012119(3) 150730 | WATER SW-100 N/A 12/10/91 W1012119RE(4) 150730 | WATER SW-300 N/A 11/15/91 W1511-79 149120 | WATER SW-400 N/A 11/15/91 W1511-80 149121 | WATER SW-800 N/A 11/16/91 W1811-83 149236 | WATER SW-800 N/A 11/16/91 W1811-84(1) 149237 | WATER SW-800 N/A 11/16/91 W1911-83A(2) 149454 | WATER SW-800 N/A 11/16/91 W1911-84A(1) 149455 | WATER ASH 12/09/92 SW-WD 175669 | WATER ASH 12/09/92 SW-WE 175680 | WATER ASH 12/09/92 SW-WE 175688 |       |
|--|--|--|---|---|---|--|---|---|---------------------------------|---------------------------------|---------------------------------|-------|
| COMPOUND                               | UNITS  |  |   |   |   |  |   |   |                                 |                                 |                                 |       |
| SemiVolatiles                          |  |  |   |   |   |  |   |   |                                 |                                 |                                 |       |
| Phenol                                 | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| bis(2-Chloroethyl) ether               | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2-Chlorophenol                         | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 1,3-Dichlorobenzene                    | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 1,4-Dichlorobenzene                    | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Benzyl Alcohol                         | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | NS                              | NS                              | NS    |
| 1,2-Dichlorobenzene                    | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2-Methylphenol                         | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| bis(2-Chloroisopropyl) ether           | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 4-Methylphenol                         | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| N-Nitroso-d-n-propylamine              | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Hexachloroethane                       | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Nitrobenzene                           | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Isophorone                             | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2-Nitrophenol                          | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2,4-Dimethylphenol                     | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Benzoic acid                           | µg/L   | 50 U   | NS  | 51 U                                      | 50 U                                      | 50 U   | 50 U  | NS  | NS                              | NS                              | NS                              | NS    |
| bis(2-Chloroethoxy) methane            | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2,4-Dichlorophenol                     | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 1,2,4-Trichlorobenzene                 | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Naphthalene                            | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 4-Chloroaniline                        | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Hexachlorobutadiene                    | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 4-Chloro-3-methylphenol                | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2-Methylnaphthalene                    | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Hexachlorocyclopentadiene              | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2,4,6-Trichlorophenol                  | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2,4,5-Trichlorophenol                  | µg/L   | 50 U   | NS  | 51 U                                      | 50 U                                      | 50 U   | 50 U  | NS  | NS                              | 25 U                            | 25 U                            | 25 U  |
| 2-Chloronaphthalene                    | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2-Nitroaniline                         | µg/L   | 50 U   | NS  | 51 U                                      | 50 U                                      | 50 U   | 50 U  | NS  | NS                              | 25 U                            | 25 U                            | 25 U  |
| Dimethylphthalate                      | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Acenaphthylene                         | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2,6-Dinitrotoluene                     | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 3-Nitroaniline                         | µg/L   | 50 U   | NS  | 51 U                                      | 50 U                                      | 50 U   | 50 U  | NS  | NS                              | 25 U                            | 25 U                            | 25 U  |
| Acenaphthene                           | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2,4-Dinitrophenol                      | µg/L   | 50 U   | NS  | 51 U                                      | 50 U                                      | 50 U   | 50 U  | NS  | NS                              | 25 U                            | 25 U                            | 25 U  |
| 4-Nitrophenol                          | µg/L   | 50 U   | NS  | 51 U                                      | 50 U                                      | 50 U   | 50 U  | NS  | NS                              | 25 U                            | 25 U                            | 25 U  |
| Dibenzofuran                           | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 2,4-Dinitrotoluene                     | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Diethylphthalate                       | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 4-Chlorophenyl-phenylether             | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Fluorene                               | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 4-Nitroaniline                         | µg/L   | 50 U   | NS  | 51 U                                      | 50 U                                      | 50 U   | 50 U  | NS  | NS                              | 25 U                            | 25 U                            | 25 U  |
| 4,6-Dinitro-2-methylphenol             | µg/L   | 50 U   | NS  | 51 U                                      | 50 U                                      | 50 U   | 50 U  | NS  | NS                              | 25 U                            | 25 U                            | 25 U  |
| N-Nitrosodiphenylamine (1)             | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 4-Bromophenyl-phenylether              | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Hexachlorobenzene                      | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Pentachlorophenol                      | µg/L   | 50 U   | NS  | 51 U                                      | 50 U                                      | 50 U   | 50 U  | NS  | NS                              | 25 U                            | 25 U                            | 25 U  |
| Phenanthrene                           | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Anthracene                             | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Carbazole                              | µg/L   | NS   | NS  | NS  | NS  | NS   | NS  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Di-n-butylphthalate                    | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 0.3 U |
| Fluoranthene                           | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Pyrene                                 | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Butylbenzylphthalate                   | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| 3,3'-Dichlorobenzidine                 | µg/L   | 20 U   | NS  | 21 U                                      | 20 U                                      | 20 U   | 20 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Benzo(a)anthracene                     | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Chrysene                               | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| bis(2-Ethylhexyl)phthalate             | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Di-n-octylphthalate                    | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Benzo(b)fluoranthene                   | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Benzo(k)fluoranthene                   | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Benzo(a)pyrene                         | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Indeno(1,2,3-cd)pyrene                 | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Dibenz(a,h)anthracene                  | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |
| Benzo(g,h,i)perylene                   | µg/L   | 10 U   | NS  | 10 U                                      | 10 U                                      | 10 U   | 10 U  | NS  | NS                              | 10 U                            | 10 U                            | 10 U  |

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 SURFACE WATER ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH DATE ES ID LAB ID | WATER SW-100 N/A 12/10/91 W1012119(3) 150730 | WATER SW-100 N/A 12/10/91 W1012119RE(4) 150730 | WATER SW-300 N/A 11/15/91 W1511-79 149120 | WATER SW-400 N/A 11/15/91 W1511-80 149121 | WATER SW-800 N/A 11/16/91 W1611-83 149236 | WATER SW-800 N/A 11/16/91 W1611-84(1) 149237 | WATER SW-800 N/A 11/16/91 W1911-83A(2) 149454 | WATER SW-800 N/A 11/16/91 W1911-84A(1) 149455 | WATER ASH 12/09/92 SW-WD 175889 | WATER ASH 12/09/92 SW-WE 175890 | WATER ASH 12/09/92 RBSDSW-2 175888 |         |
|---|--|--|---|---|---|--|---|---|---------------------------------|---------------------------------|------------------------------------|---------|
| <b>Pesticides/PCBs</b>                  |  |  |   |   |   |  |   |   |                                 |                                 |                                    |         |
| alpha-BHC                               | µg/L   | 0.05 U   | 0.05 U J                                  | 0.05 U                                    | 0.05 U                                    | 0.05 U                                       | 0.05 U  | NS  | NS                              | 0.064 U                         | 0.054 UJ                           | 0.056 U |
| beta-BHC                                | µg/L   | 0.05 U   | 0.05 U J                                  | 0.05 U                                    | 0.05 U                                    | 0.05 U                                       | 0.05 U  | NS  | NS                              | 0.064 U                         | 0.054 UJ                           | 0.056 U |
| delta-BHC                               | µg/L   | 0.05 U   | 0.05 U J                                  | 0.05 U                                    | 0.05 U                                    | 0.05 U                                       | 0.05 U  | NS  | NS                              | 0.064 U                         | 0.054 UJ                           | 0.056 U |
| gamma-BHC (Lindene)                     | µg/L   | 0.05 U   | 0.05 U J                                  | 0.05 U                                    | 0.05 U                                    | 0.05 U                                       | 0.05 U  | NS  | NS                              | 0.064 U                         | 0.054 UJ                           | 0.056 U |
| Heptachlor                              | µg/L   | 0.05 U   | 0.05 U J                                  | 0.05 U                                    | 0.05 U                                    | 0.05 U                                       | 0.05 U  | NS  | NS                              | 0.064 U                         | 0.054 UJ                           | 0.056 U |
| Aldrin                                  | µg/L   | 0.05 U   | 0.05 U J                                  | 0.05 U                                    | 0.05 U                                    | 0.05 U                                       | 0.05 U  | NS  | NS                              | 0.064 U                         | 0.054 UJ                           | 0.056 U |
| Heptachlor epoxide                      | µg/L   | 0.05 U   | 0.05 U J                                  | 0.05 U                                    | 0.05 U                                    | 0.05 U                                       | 0.05 U  | NS  | NS                              | 0.064 U                         | 0.054 UJ                           | 0.056 U |
| Endosulfan I                            | µg/L   | 0.05 U   | 0.05 U J                                  | 0.05 U                                    | 0.05 U                                    | 0.05 U                                       | 0.05 U  | NS  | NS                              | 0.064 U                         | 0.054 UJ                           | 0.056 U |
| Dieldrin                                | µg/L   | 0.1 U  | 0.1 U J                                   | 0.1 U                                     | 0.099 U                                   | 0.1 U  | 0.1 U   | NS  | NS                              | 0.13 U                          | 0.11 UJ                            | 0.11 U  |
| 4,4'-DDE                                | µg/L   | 0.1 U  | 0.1 U J                                   | 0.1 U                                     | 0.099 U                                   | 0.1 U  | 0.1 U   | NS  | NS                              | 0.13 U                          | 0.11 UJ                            | 0.11 U  |
| Endrin                                  | µg/L   | 0.1 U  | 0.1 U J                                   | 0.1 U                                     | 0.099 U                                   | 0.1 U  | 0.1 U   | NS  | NS                              | 0.13 U                          | 0.11 UJ                            | 0.11 U  |
| Endosulfan II                           | µg/L   | 0.1 U  | 0.1 U J                                   | 0.1 U                                     | 0.099 U                                   | 0.1 U  | 0.1 U   | NS  | NS                              | 0.13 U                          | 0.11 UJ                            | 0.11 U  |
| 4,4'-DDD                                | µg/L   | 0.1 U  | 0.1 U J                                   | 0.1 U                                     | 0.099 U                                   | 0.1 U  | 0.1 U   | NS  | NS                              | 0.13 U                          | 0.11 UJ                            | 0.11 U  |
| Endosulfan sulfate                      | µg/L   | 0.1 U  | 0.1 U J                                   | 0.1 U                                     | 0.099 U                                   | 0.1 U  | 0.1 U   | NS  | NS                              | 0.13 U                          | 0.11 UJ                            | 0.11 U  |
| 4,4'-DDT                                | µg/L   | 0.1 U  | 0.1 U J                                   | 0.1 U                                     | 0.099 U                                   | 0.1 U  | 0.1 U   | NS  | NS                              | 0.13 U                          | 0.11 UJ                            | 0.11 U  |
| Methoxychlor                            | µg/L   | 0.5 U  | 0.5 U J                                   | 0.5 U                                     | 0.5 U                                     | 0.5 U  | 0.5 U   | NS  | NS                              | 0.64 U                          | 0.54 UJ                            | 0.56 U  |
| Endrin ketone                           | µg/L   | 0.1 U  | 0.1 U J                                   | 0.1 U                                     | 0.099 U                                   | 0.1 U  | 0.1 U   | NS  | NS                              | 0.13 U                          | 0.11 UJ                            | 0.11 U  |
| Endrin aldehyde                         | µg/L   | NS   | NS  | NS  | NS  | NS   | NS  | NS  | NS                              | 0.13 U                          | 0.11 UJ                            | 0.11 U  |
| alpha-Chlordane                         | µg/L   | 0.5 U  | 0.5 U J                                   | 0.5 U                                     | 0.5 U                                     | 0.5 U  | 0.5 U   | NS  | NS                              | 0.64 U                          | 0.54 UJ                            | 0.56 U  |
| gamma-Chlordane                         | µg/L   | 0.5 U  | 0.5 U J                                   | 0.5 U                                     | 0.5 U                                     | 0.5 U  | 0.5 U   | NS  | NS                              | 0.64 U                          | 0.54 UJ                            | 0.56 U  |
| Toxaphene                               | µg/L   | 1 U  | 1 U J                                     | 1 U                                       | 0.99 U                                    | 1 U  | 1 U   | NS  | NS                              | 6.4 U                           | 5.4 UJ                             | 5.6 U   |
| Aroclor-1016                            | µg/L   | 0.5 U  | 0.5 U J                                   | 0.5 U                                     | 0.5 U                                     | 0.5 U  | 0.5 U   | NS  | NS                              | 1.3 U                           | 1.1 UJ                             | 1.1 U   |
| Aroclor-1221                            | µg/L   | 0.5 U  | 0.5 U J                                   | 0.5 U                                     | 0.5 U                                     | 0.5 U  | 0.5 U   | NS  | NS                              | 2.5 U                           | 2.2 UJ                             | 2.2 U   |
| Aroclor-1232                            | µg/L   | 0.5 U  | 0.5 U J                                   | 0.5 U                                     | 0.5 U                                     | 0.5 U  | 0.5 U   | NS  | NS                              | 1.3 U                           | 1.1 UJ                             | 1.1 U   |
| Aroclor-1242                            | µg/L   | 0.5 U  | 0.5 U J                                   | 0.5 U                                     | 0.5 U                                     | 0.5 U  | 0.5 U   | NS  | NS                              | 1.3 U                           | 1.1 UJ                             | 1.1 U   |
| Aroclor-1248                            | µg/L   | 0.5 U  | 0.5 U J                                   | 0.5 U                                     | 0.5 U                                     | 0.5 U  | 0.5 U   | NS  | NS                              | 1.3 U                           | 1.1 UJ                             | 1.1 U   |
| Aroclor-1254                            | µg/L   | 1 U  | 1 U J                                     | 1 U                                       | 0.99 U                                    | 1 U  | 1 U   | NS  | NS                              | 1.3 U                           | 1.1 UJ                             | 1.1 U   |
| Aroclor-1260                            | µg/L   | 1 U  | 1 U J                                     | 1 U                                       | 0.99 U                                    | 1 U  | 1 U   | NS  | NS                              | 1.3 U                           | 1.1 UJ                             | 1.1 U   |
| <b>Herbicides</b>                       |  |  |   |   |   |  |   |   |                                 |                                 |                                    |         |
| 2,4-D                                   | µg/L   | 1 U  | NS  | 1 U J                                     | 1 U J                                     | 1 U J  | 1 U J   | NS  | NS                              | 1.2 U                           | 1.3 U                              | 1.1 U   |
| 2,4-DB                                  | µg/L   | 1 U  | NS  | 1 U J                                     | 1 U J                                     | 1 U J  | 1 U J   | NS  | NS                              | 1.2 U                           | 1.3 U                              | 1.1 U   |
| 2,4,5-T                                 | µg/L   | 0.1 U  | NS  | 0.1 U J                                   | 0.1 U J                                   | 0.1 U J                                      | 0.1 U J                                       | NS  | NS                              | 0.12 U                          | 0.13 U                             | 0.11 U  |
| 2,4,5-TP (Silvex)                       | µg/L   | 0.1 U  | NS  | 0.1 U J                                   | 0.1 U J                                   | 0.1 U J                                      | 0.1 U J                                       | NS  | NS                              | 0.12 U                          | 0.13 U                             | 0.11 U  |
| Delapone                                | µg/L   | 2.3 U  | NS  | 2.4 U J                                   | 2.3 U J                                   | 2.3 U J                                      | 2.4 U J                                       | NS  | NS                              | 2.6 U                           | 3 U                                | 2.5 U   |
| Dicamba                                 | µg/L   | 0.1 U  | NS  | 0.1 U J                                   | 0.1 U J                                   | 0.1 U J                                      | 0.1 U J                                       | NS  | NS                              | 0.12 U                          | 0.13 U                             | 0.11 U  |
| Dichloroprop                            | µg/L   | 1 U  | NS  | 1 U J                                     | 1 U J                                     | 1 U J  | 1 U J   | NS  | NS                              | 1.2 U                           | 1.3 U                              | 1.1 U   |
| Dinoseb                                 | µg/L   | 0.5 U  | NS  | 0.5 U J                                   | 0.5 U J                                   | 0.5 U J                                      | 0.5 U J                                       | NS  | NS                              | 0.6 U                           | 0.64 U                             | 0.55 U  |
| MCPA                                    | µg/L   | 100 U  | NS  | 100 U J                                   | 99 U J                                    | 100 U J                                      | 100 U J                                       | NS  | NS                              | 120 U                           | 130 U                              | 110 U   |
| MCPP                                    | µg/L   | 100 U  | NS  | 100 U J                                   | 99 U J                                    | 100 U J                                      | 100 U J                                       | NS  | NS                              | 120 U                           | 130 U                              | 110 U   |
| <b>Metals</b>                           |  |  |   |   |   |  |   |   |                                 |                                 |                                    |         |
| Aluminum                                | µg/L   | 203 J  | NS  | 2410 J                                    | 97.8 U J                                  | 97.8 U J                                     | 97.4 U J                                      | -   | -                               | 599                             | 2370                               | 62.8 U  |
| Antimony                                | µg/L   | 53.2 U J                                       | NS  | 141 J                                     | 55.7 U J                                  | 55.8 U J                                     | 55.5 U J                                      | -   | -                               | 54 U                            | 53.9 U                             | 54.1 U  |
| Arsenic                                 | µg/L   | 2.9 U J  | NS  | 3.7 U J                                   | 3.7 U J                                   | 3.7 U J                                      | 3.7 U J                                       | -   | -                               | 2.9 J                           | 1.3 J                              | 1.2 U   |
| Barium                                  | µg/L   | 35.4 J   | NS  | 84.6 J                                    | 24.9 J                                    | 44.6 J                                       | 46.9 J  | -   | -                               | 66.2 J                          | 113 J                              | 12 U    |
| Beryllium                               | µg/L   | 1.2 J  | NS  | 1.2 U J                                   | 1.2 U J                                   | 1.2 U J                                      | 1.2 U J                                       | -   | -                               | 0.3 U                           | 0.3 U                              | 0.3 U   |
| Cadmium                                 | µg/L   | 3 U J  | NS  | 2.9 U J                                   | 2.9 U J                                   | 2.9 U J                                      | 2.9 U J                                       | -   | -                               | 3.1 U                           | 3.1 U                              | 3.1 U   |
| Calcium                                 | µg/L   | 104000 J                                       | NS  | 125000 J                                  | 45800 J                                   | 71700 J                                      | 73400 J                                       | -   | -                               | 99300                           | 165000                             | 204 U   |
| Chromium                                | µg/L   | 8.2 U J  | NS  | 7.6 J                                     | 6.2 U J                                   | 6.2 J  | 6.1 U J                                       | -   | -                               | 2 U                             | 4.3 J                              | 2 U     |
| Cobalt                                  | µg/L   | 20.4 U J                                       | NS  | 19.9 U J                                  | 19.9 U J                                  | 19.9 U J                                     | 19.9 U J                                      | -   | -                               | 5 U                             | 8.3 J                              | 5 U     |
| Copper                                  | µg/L   | 15.7 J   | NS  | 14.5 U J                                  | 14.4 U J                                  | 14.4 U J                                     | 14.4 U J                                      | -   | -                               | 4.7 R                           | 21.7 J                             | 3.4 J   |
| Iron                                    | µg/L   | 216 J  | NS  | 2080 J                                    | 17 U J                                    | 17 U J                                       | 16.9 U J                                      | -   | -                               | 8750                            | 3080                               | 21.9 U  |
| Lead                                    | µg/L   | 1.2 U J  | NS  | 14.4 R                                    | 0.7 U J                                   | 0.7 U J                                      | 0.7 U J                                       | -   | -                               | 4.5                             | 42.3                               | 0.9 U   |
| Magnesium                               | µg/L   | 13200 J  | NS  | 11800 J                                   | 353 U J                                   | 9960 J                                       | 9960 J  | -   | -                               | 12800                           | 16700                              | 284 U   |
| Manganese                               | µg/L   | 6.3 J  | NS  | 488 J                                     | 3.2 U J                                   | 3.2 U J                                      | 3.2 U J                                       | -   | -                               | 941                             | 860                                | 0.7 U   |
| Mercury                                 | µg/L   | 0.08 U J                                       | NS  | 0.08 U J                                  | 0.08 U J                                  | 0.08 U J                                     | 0.08 U J                                      | -   | -                               | 0.08 U                          | 0.15 J                             | 0.08 U  |
| Nickel                                  | µg/L   | 14.7 U J                                       | NS  | 16 U J                                    | 15.9 U J                                  | 15.9 U J                                     | 15.9 U J                                      | -   | -                               | 3.5 U                           | 11.2 J                             | 3.5 U   |
| Potassium                               | µg/L   | 828 J  | NS  | 3850 J                                    | 4690 J                                    | 1830 J                                       | 1850 J  | -   | -                               | 751 J                           | 1740 J                             | 446 U   |
| Selenium                                | µg/L   | 1 U J  | NS  | 17 U J                                    | 17 U J                                    | 17 U J                                       | 17 U J  | -   | -                               | 1.1 J                           | 3.4 J                              | 1.1 U   |
| Silver                                  | µg/L   | 3.4 U J  | NS  | 9.1 U J                                   | 9.1 U J                                   | 9 U J  | 9 U J   | -   | -                               | 3.2 U                           | 3.2 U                              | 3.2 U   |
| Sodium                                  | µg/L   | 9470 J   | NS  | 19400 J                                   | 2180000 J                                 | 83400 J                                      | 84200 J                                       | -   | -                               | 8200                            | 13200                              | 299 U   |
| Thallium                                | µg/L   | 2.8 U J  | NS  | 2.8 U J                                   | 2.8 U J                                   | 2.8 U J                                      | 2.8 U J                                       | -   | -                               | 2.8 U                           | 2.8 U                              | 2.8 U   |
| Vanadium                                | µg/L   | 16.3 J   | NS  | 30.5 U J                                  | 30.5 U J                                  | 30.4 U J                                     | 30.3 U J                                      | -   | -                               | 2.1 U                           | 5.2 J                              | 2.1 U   |
| Zinc                                    | µg/L   | 28.6 U J                                       | NS  | 187 J                                     | 16.6 U J                                  | 13.4 U J                                     | 19.6 U J                                      | -   | -                               | 36.9 R                          | 133                                | 9.4 J   |
| Cyanide                                 | µg/L   | 10 U J   | NS  | 10 U J                                    | 10 U J                                    | -  | -   | 10 U J  | 10 U J                          | 10 U                            | 10 U                               | 10 U    |

SENECA ARMY DEPOT, ASH LANDFILL  
 SEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX   | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL        |  |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|--|
|                            | LOCATION | SW-100   | SW-100   | SW-100   | SW-200   | SW-300   | SW-400   | SW-600   | SW-600      |  |
|                            | DEPTH    | N/A      | N/A      | N/A      | N/A      | N/A      | N/A      | N/A      | N/A         |  |
|                            | DATE     | 11/15/91 | 11/15/91 | 12/10/91 | 11/15/91 | 11/15/91 | 11/15/91 | 11/16/91 | 11/16/91    |  |
|                            | ES ID    | S1511-78 | S1611-83 | S1012119 | S1511-77 | S1511-79 | S1511-80 | S1611-85 | S1611-86(1) |  |
|                            | LAB ID   | 148231   | 149232   | 150727   | 149115   | 149116   | 149117   | 149233   | 149234      |  |
|                            | UNITS    |          |          |          |          |          |          |          |             |  |
| VOCs                       |          |          |          |          |          |          |          |          |             |  |
| Chloromethane              | µg/Kg    | 15 U     | 13 U     | 21 U     | 16 U     | 16 U     | 22 U     | 14 U     | 13 U        |  |
| Bromomethane               | µg/Kg    | 15 U     | 13 U     | 21 U     | 16 U     | 16 U     | 22 U     | 14 U     | 13 U        |  |
| Vinyl Chloride             | µg/Kg    | 15 U     | 13 U     | 21 U     | 16 U     | 16 U     | 22 U     | 14 U     | 13 U        |  |
| Chloroethane               | µg/Kg    | 15 U     | 13 U     | 21 U     | 16 U     | 16 U     | 22 U     | 14 U     | 13 U        |  |
| Methylene Chloride         | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Acetone                    | µg/Kg    | 15 U     | 13 U     | 21 U     | 16 U     | 16 U     | 22 U     | 14 U     | 13 U        |  |
| Carbon Disulfide           | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| 1,1-Dichloroethene         | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| 1,1-Dichloroethane         | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| 1,2-Dichloroethene (total) | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Chloroform                 | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| 1,2-Dichloroethane         | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| 2-Butanone                 | µg/Kg    | 15 U     | 13 U     | 21 U     | 16 U     | 16 U     | 22 U     | 14 U     | 13 U        |  |
| 1,1,1-Trichloroethane      | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Carbon Tetrachloride       | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Vinyl Acetate              | µg/Kg    | 15 U     | 13 U     | 21 U     | 16 U     | 16 U     | 22 U     | 14 U     | 13 U        |  |
| Bromodichloromethane       | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| 1,2-Dichloropropane        | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| cis-1,3-Dichloropropene    | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Trichloroethene            | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Dibromochloromethane       | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| 1,1,2-Trichloroethane      | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Benzene                    | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| trans-1,3-Dichloropropene  | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Bromoform                  | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| 4-Methyl-2-Pentanone       | µg/Kg    | 15 U     | 13 U     | 21 U     | 16 U     | 16 U     | 22 U     | 14 U     | 13 U        |  |
| 2-Hexanone                 | µg/Kg    | 15 U     | 13 U     | 21 U     | 16 U     | 16 U     | 22 U     | 14 U     | 13 U        |  |
| Tetrachloroethane          | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| 1,1,2,2-Tetrachloroethane  | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Toluene                    | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Chlorobenzene              | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Ethylbenzene               | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Styrene                    | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |
| Xylene (total)             | µg/Kg    | 8 U      | 8 U      | 10 U     | 8 U      | 9 U      | 11 U     | 7 U      | 7 U         |  |

NOTE: "NS" = NOT SAMPLED

SENECA ARMY DEPOT, ASH LANDFILL  
 SEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL SW-100 | SOIL SW-100 | SOIL SW-100 | SOIL SW-200 | SOIL SW-300 | SOIL SW-400 | SOIL SW-600 | SOIL SW-600 |        |
|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|
| DEPTH                        | N/A         | N/A         | N/A         | N/A         | N/A         | N/A         | N/A         | N/A         |        |
| DATE                         | 11/15/91    | 11/15/91    | 12/10/91    | 11/15/91    | 11/15/91    | 11/15/91    | 11/15/91    | 11/16/91    |        |
| ES ID                        | S1511-78    | S1811-83    | S1012118    | S1511-77    | S1511-79    | S1511-80    | S1511-85    | S1811-86(1) |        |
| LAB ID                       | 149231      | 149232      | 150727      | 149115      | 149118      | 149117      | 149233      | 149234      |        |
| UNITS                        |             |             |             |             |             |             |             |             |        |
| COMPOUND                     |             |             |             |             |             |             |             |             |        |
| Semivolatiles                |             |             |             |             |             |             |             |             |        |
| Phenol                       | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| bis(2-Chloroethyl) ether     | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2-Chlorophenol               | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 1,3-Dichlorobenzene          | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 1,4-Dichlorobenzene          | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Benzyl Alcohol               | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 1,2-Dichlorobenzene          | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2-Methylphenol               | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| bis(2-Chloroisopropyl) ether | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 4-Methylphenol               | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| N-Nitroso-d-n-propylamine    | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Hexachloroethane             | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Nitrobenzene                 | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Isophorone                   | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2-Nitrophenol                | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2,4-Dimethylphenol           | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Benzoic acid                 | µg/Kg       | 5000 U      | 6000 U      | NS          | 5100 U      | 5100 U      | 5700 U      | 4300 U      | 4500 U |
| bis(2-Chloroethoxy) methane  | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2,4-Dichlorophenol           | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 1,2,4-Trichlorobenzene       | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Naphthalene                  | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 4-Chloroaniline              | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Hexachlorobutadiene          | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 4-Chloro-3-methylphenol      | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2-Methylnaphthalene          | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Hexachlorocyclopentadiene    | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2,4,6-Trichlorophenol        | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2,4,5-Trichlorophenol        | µg/Kg       | 5000 U      | 6000 U      | NS          | 5100 U      | 5100 U      | 5700 U      | 4300 U      | 4500 U |
| 2-Chloronaphthalene          | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2-Nitroaniline               | µg/Kg       | 5000 U      | 6000 U      | NS          | 5100 U      | 5100 U      | 5700 U      | 4300 U      | 4500 U |
| Dimethylphthalate            | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Acephenylene                 | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 120 J       | 170 J  |
| 2,6-Dinitrotoluene           | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 3-Nitroaniline               | µg/Kg       | 5000 U      | 6000 U      | NS          | 5100 U      | 5100 U      | 5700 U      | 4300 U      | 4500 U |
| Acephenylene                 | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2,4-Dinitrophenol            | µg/Kg       | 5000 U      | 6000 U      | NS          | 5100 U      | 5100 U      | 5700 U      | 4300 U      | 4500 U |
| 4-Nitrophenol                | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Dibenzofuran                 | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 2,4-Dinitrotoluene           | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Diethylphthalate             | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 4-Chlorophenyl-phenylether   | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Fluorene                     | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 4-Nitroaniline               | µg/Kg       | 5000 U      | 6000 U      | NS          | 5100 U      | 5100 U      | 5700 U      | 4300 U      | 4500 U |
| 4,6-Dinitro-2-methylphenol   | µg/Kg       | 5000 U      | 6000 U      | NS          | 5100 U      | 5100 U      | 5700 U      | 4300 U      | 4500 U |
| N-Nitrosodiphenylamine (1)   | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 4-Bromophenyl-phenylether    | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Hexachlorobenzene            | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Pentachlorophenol            | µg/Kg       | 5000 U      | 6000 U      | NS          | 5100 U      | 5100 U      | 5700 U      | 4300 U      | 4500 U |
| Phenanthrene                 | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 270 J       | 720 J       | 1200   |
| Anthracene                   | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 180 J       | 270 J  |
| Carbazole                    | µg/Kg       | NS          | NS          | NS          | NS          | NS          | NS          | NS          | NS     |
| Di-n-butylphthalate          | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Fluoranthene                 | µg/Kg       | 120 J       | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Pyrene                       | µg/Kg       | 94 J        | 1200 U      | NS          | 130 J       | 180 J       | 740 J       | 4400        | 6700   |
| Butylbenzylphthalate         | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| 3,3'-Dichlorobenzidine       | µg/Kg       | 2000 U      | 2500 U      | NS          | 2100 U      | 2100 U      | 2400 U      | 1800 U      | 1900 U |
| Benzo(a)anthracene           | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 87 J        | 410 J       | 3300        | 4900   |
| Chrysene                     | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 130 J       | 520 J       | 3600        | 5300   |
| bis(2-Ethylhexyl)phthalate   | µg/Kg       | 1000 U      | 1200 U      | NS          | 100 J       | 210 J       | 1200 U      | 880 U       | 940 U  |
| Di-n-octylphthalate          | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 1200 U      | 880 U       | 940 U  |
| Benzo(b)fluoranthene         | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 450 J       | 3100        | 4500   |
| Benzo(k)fluoranthene         | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 87 J        | 450 J       | 2400        | 3700   |
| Benzo(a)pyrene               | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 110 J       | 480 J       | 2600        | 3900   |
| Indeno(1,2,3-cd)pyrene       | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 340 J       | 1700        | 2400   |
| Dibenzo(a,h)anthracene       | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 180 J       | 690 J       | 1300   |
| Benzo(g,h,i)perylene         | µg/Kg       | 1000 U      | 1200 U      | NS          | 1100 U      | 1100 U      | 340 J       | 1600        | 2300   |



SENECA ARMY DEPOT, ASH LANDFILL  
 SEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH DATE ES ID LAB ID | SOIL SW-100 N/A 11/15/91 S1511-78 149231 | SOIL SW-100 N/A 11/15/91 S1611-83 149232 | SOIL SW-100 N/A 12/10/91 S1012119 150727 | SOIL SW-200 N/A 11/15/91 S1511-77 149115 | SOIL SW-300 N/A 11/15/91 S1511-79 149116 | SOIL SW-400 N/A 11/15/91 S1511-80 149117 | SOIL SW-600 N/A 11/16/91 S1611-85 149233 | SOIL SW-600 N/A 11/16/91 S1611-86(1) 149234 |          |
|---|--|--|--|--|--|--|--|---|----------|
| COMPOUND UNITS                          |  |  |  |  |  |  |  |   |          |
| <b>Pesticides/PCBs</b>                  |  |  |  |  |  |  |  |   |          |
| alpha-BHC                               | µg/Kg                                    | 25 U                                     | 30 U                                     | NS                                       | 26 U                                     | 25 U                                     | 29 U                                     | 21 U  | 23 U     |
| beta-BHC                                | µg/Kg                                    | 25 U                                     | 30 U                                     | NS                                       | 26 U                                     | 25 U                                     | 29 U                                     | 21 U  | 23 U     |
| delta-BHC                               | µg/Kg                                    | 25 U                                     | 30 U                                     | NS                                       | 26 U                                     | 25 U                                     | 29 U                                     | 21 U  | 23 U     |
| gamma-BHC (Lindane)                     | µg/Kg                                    | 25 U                                     | 30 U                                     | NS                                       | 26 U                                     | 25 U                                     | 29 U                                     | 21 U  | 23 U     |
| Heptachlor                              | µg/Kg                                    | 25 U                                     | 30 U                                     | NS                                       | 26 U                                     | 25 U                                     | 29 U                                     | 21 U  | 23 U     |
| Aldrin                                  | µg/Kg                                    | 25 U                                     | 30 U                                     | NS                                       | 26 U                                     | 25 U                                     | 29 U                                     | 21 U  | 23 U     |
| Heptachlor epoxide                      | µg/Kg                                    | 25 U                                     | 30 U                                     | NS                                       | 26 U                                     | 25 U                                     | 29 U                                     | 21 U  | 23 U     |
| Endosulfan I                            | µg/Kg                                    | 25 U                                     | 30 U                                     | NS                                       | 26 U                                     | 25 U                                     | 29 U                                     | 21 U  | 23 U     |
| Dieldrin                                | µg/Kg                                    | 50 U                                     | 60 U                                     | NS                                       | 51 U                                     | 51 U                                     | 57 U                                     | 43 U  | 45 U     |
| 4,4'-DDE                                | µg/Kg                                    | 50 U                                     | 60 U                                     | NS                                       | 51 U                                     | 51 U                                     | 57 U                                     | 43 U  | 45 U     |
| Endrin                                  | µg/Kg                                    | 50 U                                     | 60 U                                     | NS                                       | 51 U                                     | 51 U                                     | 57 U                                     | 43 U  | 45 U     |
| Endosulfan II                           | µg/Kg                                    | 50 U                                     | 60 U                                     | NS                                       | 51 U                                     | 51 U                                     | 57 U                                     | 43 U  | 45 U     |
| 4,4'-DDD                                | µg/Kg                                    | 50 U                                     | 60 U                                     | NS                                       | 51 U                                     | 51 U                                     | 57 U                                     | 43 U  | 45 U     |
| Endosulfan sulfate                      | µg/Kg                                    | 50 U                                     | 60 U                                     | NS                                       | 51 U                                     | 51 U                                     | 57 U                                     | 43 U  | 45 U     |
| 4,4'-DDT                                | µg/Kg                                    | 50 U                                     | 60 U                                     | NS                                       | 51 U                                     | 51 U                                     | 57 U                                     | 43 U  | 45 U     |
| Methoxychlor                            | µg/Kg                                    | 250 U                                    | 300 U                                    | NS                                       | 260 U                                    | 250 U                                    | 290 U                                    | 210 U                                       | 230 U    |
| Endrin ketone                           | µg/Kg                                    | 50 U                                     | 60 U                                     | NS                                       | 51 U                                     | 51 U                                     | 57 U                                     | 43 U  | 45 U     |
| Endrin aldehyde                         | µg/Kg                                    | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       | NS                                       | NS  | NS       |
| alpha-Chlordane                         | µg/Kg                                    | 250 U                                    | 300 U                                    | NS                                       | 260 U                                    | 250 U                                    | 290 U                                    | 210 U                                       | 230 U    |
| gamma-Chlordane                         | µg/Kg                                    | 250 U                                    | 300 U                                    | NS                                       | 260 U                                    | 250 U                                    | 290 U                                    | 210 U                                       | 230 U    |
| Toxaphene                               | µg/Kg                                    | 500 U                                    | 600 U                                    | NS                                       | 510 U                                    | 510 U                                    | 570 U                                    | 430 U                                       | 450 U    |
| Aroclor-1018                            | µg/Kg                                    | 250 U                                    | 300 U                                    | NS                                       | 260 U                                    | 250 U                                    | 290 U                                    | 210 U                                       | 230 U    |
| Aroclor-1221                            | µg/Kg                                    | 250 U                                    | 300 U                                    | NS                                       | 260 U                                    | 250 U                                    | 290 U                                    | 210 U                                       | 230 U    |
| Aroclor-1232                            | µg/Kg                                    | 250 U                                    | 300 U                                    | NS                                       | 260 U                                    | 250 U                                    | 290 U                                    | 210 U                                       | 230 U    |
| Aroclor-1242                            | µg/Kg                                    | 250 U                                    | 300 U                                    | NS                                       | 260 U                                    | 250 U                                    | 290 U                                    | 210 U                                       | 230 U    |
| Aroclor-1248                            | µg/Kg                                    | 250 U                                    | 300 U                                    | NS                                       | 260 U                                    | 250 U                                    | 290 U                                    | 210 U                                       | 230 U    |
| Aroclor-1254                            | µg/Kg                                    | 500 U                                    | 600 U                                    | NS                                       | 510 U                                    | 510 U                                    | 570 U                                    | 430 U                                       | 450 U    |
| Aroclor-1260                            | µg/Kg                                    | 500 U                                    | 600 U                                    | NS                                       | 510 U                                    | 510 U                                    | 570 U                                    | 430 U                                       | 450 U    |
| <b>Herbicides</b>                       |  |  |  |  |  |  |  |   |          |
| 2,4-D                                   | µg/Kg                                    | 77 U J                                   | 94 U                                     | NS                                       | 79 U J                                   | 79 U J                                   | 88 U J                                   | 67 U J                                      | 71 U J   |
| 2,4-DB                                  | µg/Kg                                    | 77 U J                                   | 94 U                                     | NS                                       | 79 U J                                   | 79 U J                                   | 88 U J                                   | 67 U J                                      | 71 U J   |
| 2,4,5-T                                 | µg/Kg                                    | 8 U J                                    | 9 U                                      | NS                                       | 8 U J                                    | 8 U J                                    | 9 U J                                    | 7 U J                                       | 7 U J    |
| 2,4,5-TP (Silvex)                       | µg/Kg                                    | 8 U J                                    | 9 U                                      | NS                                       | 8 U J                                    | 8 U J                                    | 9 U J                                    | 7 U J                                       | 7 U J    |
| Delepon                                 | µg/Kg                                    | 190 U J                                  | 230 U                                    | NS                                       | 190 U J                                  | 190 U J                                  | 210 U J                                  | 160 U J                                     | 170 U J  |
| Diamba                                  | µg/Kg                                    | 8 U J                                    | 9 U                                      | NS                                       | 8 U J                                    | 8 U J                                    | 9 U J                                    | 7 U J                                       | 7 U J    |
| Dichloroprop                            | µg/Kg                                    | 77 U J                                   | 94 U                                     | NS                                       | 79 U J                                   | 79 U J                                   | 88 U J                                   | 67 U J                                      | 71 U J   |
| Dinoseb                                 | µg/Kg                                    | 35 U J                                   | 47 U                                     | NS                                       | 40 U J                                   | 40 U J                                   | 44 U J                                   | 33 U J                                      | 36 U J   |
| MCPA                                    | µg/Kg                                    | 7700 U J                                 | 9400 U                                   | NS                                       | 7900 U J                                 | 7900 U J                                 | 8800 U J                                 | 6700 U J                                    | 7100 U J |
| MCPP                                    | µg/Kg                                    | 7700 U J                                 | 9400 U                                   | NS                                       | 7900 U J                                 | 7900 U J                                 | 8800 U J                                 | 6700 U J                                    | 7100 U J |
| <b>Metals</b>                           |  |  |  |  |  |  |  |   |          |
| Aluminum                                | mg/Kg                                    | 17400                                    | 17400                                    | NS                                       | 14200                                    | 7340                                     | 12100                                    | 17400                                       | 20900    |
| Antimony                                | mg/Kg                                    | 13.9 U                                   | 10.8 J                                   | NS                                       | 12.9 U                                   | 9.1 U                                    | 11.1 U                                   | 9.4 U                                       | 12.8 U   |
| Arsenic                                 | mg/Kg                                    | 3  | 3.5                                      | NS                                       | 7.9                                      | 3.4                                      | 8.7                                      | 8   | 10.5     |
| Barium                                  | mg/Kg                                    | 129                                      | 128                                      | NS                                       | 110                                      | 52.7                                     | 79                                       | 157   | 227      |
| Beryllium                               | mg/Kg                                    | 1.1 J                                    | 1 R                                      | NS                                       | 0.9 J                                    | 0.45 J                                   | 0.75 J                                   | 1.1   | 1.2      |
| Cadmium                                 | mg/Kg                                    | 3.5                                      | 3.3                                      | NS                                       | 2.3                                      | 2  | 2.3                                      | 3   | 3.9      |
| Calcium                                 | mg/Kg                                    | 10600                                    | 13600                                    | NS                                       | 11400                                    | 229000                                   | 37300                                    | 9660  | 14200    |
| Chromium                                | mg/Kg                                    | 26                                       | 25.4                                     | NS                                       | 20.7                                     | 13.2                                     | 21.8                                     | 26.5  | 33.4     |
| Cobalt                                  | mg/Kg                                    | 6.7 J                                    | 11.7                                     | NS                                       | 7.8 J                                    | 6.6 J                                    | 9.1 J                                    | 11.7  | 12.9     |
| Copper                                  | mg/Kg                                    | 58                                       | 58.8                                     | NS                                       | 41.2                                     | 14.9                                     | 31.2                                     | 39.2  | 43       |
| Iron                                    | mg/Kg                                    | 26300                                    | 27900                                    | NS                                       | 23800                                    | 16200                                    | 22900                                    | 33100                                       | 36400    |
| Lead                                    | mg/Kg                                    | 85.4                                     | 100                                      | NS                                       | 26.7                                     | 23.9                                     | 63.7                                     | 219   | 197      |
| Magnesium                               | mg/Kg                                    | 5000                                     | 5250                                     | NS                                       | 4790                                     | 7240                                     | 11000                                    | 5460  | 6400     |
| Manganese                               | mg/Kg                                    | 488                                      | 511 J                                    | NS                                       | 462                                      | 1040                                     | 383                                      | 837   | 999      |
| Mercury                                 | mg/Kg                                    | 0.11 J                                   | 0.06                                     | NS                                       | 0.1 J                                    | 0.06 J                                   | 0.12 J                                   | 0.12  | 0.07 J   |
| Nickel                                  | mg/Kg                                    | 28.1                                     | 28                                       | NS                                       | 24.8                                     | 22                                       | 32                                       | 29.8  | 35.8     |
| Potassium                               | mg/Kg                                    | 2150                                     | 1670                                     | NS                                       | 2020                                     | 750 J                                    | 1740                                     | 1850  | 2510     |
| Selenium                                | mg/Kg                                    | 0.68 J                                   | 0.52 J                                   | NS                                       | 2 U                                      | 0.48 U                                   | 0.39 U                                   | 0.38 U                                      | 2.1 U    |
| Silver                                  | mg/Kg                                    | 2.1 U                                    | 0.69                                     | NS                                       | 2.1 U                                    | 1.5 U                                    | 1.8 U                                    | 1.5 U                                       | 2 U      |
| Sodium                                  | mg/Kg                                    | 106 U                                    | 106                                      | NS                                       | 74.6 U                                   | 140 J                                    | 97.9 J                                   | 54.4 U                                      | 80.2 J   |
| Thallium                                | mg/Kg                                    | 0.71 U                                   | 0.52                                     | NS                                       | 0.65 U                                   | 0.78 U                                   | 0.65 U                                   | 0.62 U                                      | 0.69 U   |
| Vanadium                                | mg/Kg                                    | 26.1                                     | 23.6                                     | NS                                       | 23.1                                     | 10.7                                     | 21.8                                     | 29  | 30.7     |
| Zinc                                    | mg/Kg                                    | 495                                      | 523                                      | NS                                       | 144                                      | 278                                      | 661                                      | 448   | 600      |
| Cyanide                                 | mg/Kg                                    | 0.86 U                                   | 0.89                                     | NS                                       | 0.92 U                                   | 0.85 U                                   | 1 U                                      | 0.7 U                                       | 0.82 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
 SEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION | SOIL     | SOIL          | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     |
|----------------------------|-----------------|----------|---------------|----------|----------|----------|----------|----------|----------|
|                            |                 | SW-700   | SW-700        | SW-800   | SW-900   | SW-900   | SW-901   | ASH      | ASH      |
| VOCs                       | DEPTH           | N/A      | N/A           | N/A      | N/A      | N/A      | N/A      | N/A      | N/A      |
|                            | DATE            | 11/20/91 | 11/20/91      | 11/16/91 | 11/21/91 | 11/20/91 | 11/15/91 | 12/09/92 | 12/09/92 |
|                            | ES ID           | S2011-88 | S2011-88RE(4) | S1611-63 | S2011-87 | S2011-87 | S1511-76 | SD-WA    | SD-WB    |
|                            | LAB ID          | 149452   | 149452        | 149232   | 149451   | 149451   | 149114   | 175894   | 175895   |
|                            | UNITS           |          |               |          |          |          |          |          |          |
| Chloromethane              | µg/Kg           | 14 U     | NS            | NS       | NS       | 32 U     | NS       | 16 U     | 34 U     |
| Bromomethane               | µg/Kg           | 14 U     | NS            | NS       | NS       | 32 U     | NS       | 16 U     | 34 U     |
| Vinyl Chloride             | µg/Kg           | 14 U     | NS            | NS       | NS       | 32 U     | NS       | 16 U     | 34 U     |
| Chloroethane               | µg/Kg           | 14 U     | NS            | NS       | NS       | 32 U     | NS       | 16 U     | 34 U     |
| Methylene Chloride         | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Acetone                    | µg/Kg           | 14 U     | NS            | NS       | NS       | 54 U     | NS       | 16 U     | 34 U     |
| Carbon Disulfide           | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| 1,1-Dichloroethane         | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 15 J     |
| 1,1-Dichloroethane         | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| 1,2-Dichloroethane (total) | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 640      |
| Chloroform                 | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 4 J      | 34 U     |
| 1,2-Dichloroethane         | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| 2-Butanone                 | µg/Kg           | 14 U     | NS            | NS       | NS       | 32 U     | NS       | 16 U     | 34 U     |
| 1,1,1-Trichloroethane      | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Carbon Tetrachloride       | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Vinyl Acetate              | µg/Kg           | 14 U     | NS            | NS       | NS       | 32 U     | NS       | NS       | NS       |
| Bromodichloromethane       | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| 1,2-Dichloropropane        | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| cis-1,3-Dichloropropene    | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Trichloroethene            | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 11 J     |
| Dibromochloromethane       | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| 1,1,2-Trichloroethane      | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Benzene                    | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| trans-1,3-Dichloropropene  | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Bromofom                   | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| 4-Methyl-2-Pentanone       | µg/Kg           | 14 U     | NS            | NS       | NS       | 32 U     | NS       | 16 U     | 34 U     |
| 2-Hexanone                 | µg/Kg           | 14 U     | NS            | NS       | NS       | 32 U     | NS       | 16 U     | 34 U     |
| Tetrachloroethane          | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| 1,1,2,2-Tetrachloroethane  | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Toluene                    | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Chlorobenzene              | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Ethylbenzene               | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Styrene                    | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |
| Xylene (total)             | µg/Kg           | 7 U      | NS            | NS       | NS       | 16 U     | NS       | 16 U     | 34 U     |

SENECA ARMY DEPOT, ASH LANDFILL  
 SEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION              | SOIL SW-700 | SOIL SW-700  | SOIL SW-800 | SOIL SW-900 | SOIL SW-900 | SOIL SW-901 | SOIL ASH | SOIL ASH |         |
|------------------------------|-------------|--------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| DEPTH                        | N/A         | N/A          | N/A         | N/A         | N/A         | N/A         |          |          |         |
| DATE                         | 11/20/91    | 11/20/91     | 11/16/91    | 11/21/91    | 11/20/91    | 11/15/91    | 12/09/92 | 12/09/92 |         |
| ES ID                        | S2011-88    | S2011-88RE#) | S1611-83    | S2011-87    | S2011-87    | S1511-78    | SD-WA    | SD-WB    |         |
| LAB ID                       | 149452      | 149452       | 149232      | 149451      | 149451      | 149114      | 175894   | 175895   |         |
| COMPOUND                     | UNITS       |              |             |             |             |             |          |          |         |
| <b>Semivolatiles</b>         |             |              |             |             |             |             |          |          |         |
| Phenol                       | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| bis(2-Chloroethyl) ether     | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2-Chlorophenol               | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 1,3-Dichlorobenzene          | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 1,4-Dichlorobenzene          | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Benzyl Alcohol               | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | NS      |
| 1,2-Dichlorobenzene          | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2-Methylphenol               | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| bis(2-Chloroisopropyl) ether | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 4-Methylphenol               | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 100 J       | 930 U    | 440 U    | 430 UJ  |
| N-Nitroso-di-n-propylamine   | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Hexachloroethane             | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Nitrobenzene                 | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Isophorone                   | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2-Nitrophenol                | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2,4-Dimethylphenol           | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Benzoic acid                 | µg/Kg       | 4800 U       | 2300 U      | 3700 U      | 10000 U J   | 5100 U      | 4500 U   | 1100 U   | NS      |
| bis(2-Chloroethoxy) methane  | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2,4-Dichlorophenol           | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 1,2,4-Trichlorobenzene       | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Naphthalene                  | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 4-Chloroaniline              | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Hexachlorobutadiene          | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 4-Chloro-3-methylphenol      | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2-Methylnaphthalene          | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Hexachlorocyclopentadiene    | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2,4,6-Trichlorophenol        | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2,4,5-Trichlorophenol        | µg/Kg       | 4800 U       | 2300 U      | 3700 U      | 10000 U J   | 5100 U      | 4500 U   | 1100 U   | 1000 UJ |
| 2-Chloronaphthalene          | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2-Nitroaniline               | µg/Kg       | 4800 U       | 2300 U      | 3700 U      | 10000 U J   | 5100 U      | 4500 U   | 1100 U   | 1000 UJ |
| Dimethylphthalate            | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Acenaphthylene               | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2,6-Dinitrotoluene           | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 3-Nitroaniline               | µg/Kg       | 4800 U       | 2300 U      | 3700 U      | 10000 U J   | 5100 U      | 4500 U   | 1100 U   | 1000 UJ |
| Acenaphthene                 | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2,4-Dinitrophenol            | µg/Kg       | 4800 U       | 2300 U      | 3700 U      | 10000 U J   | 5100 U      | 4500 U   | 1100 U   | 1000 UJ |
| 4-Nitrophenol                | µg/Kg       | 4800 U       | 2300 U      | 3700 U      | 10000 U J   | 5100 U      | 4500 U   | 1100 U   | 1000 UJ |
| Dibenzofuran                 | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 2,6-Dinitrotoluene           | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Diethylphthalate             | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 4-Chlorophenyl-phenylether   | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Fluorene                     | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 4-Nitroaniline               | µg/Kg       | 4800 U       | 2300 U      | 3700 U      | 10000 U J   | 5100 U      | 4500 U   | 1100 U   | 1000 UJ |
| 4,6-Dinitro-2-methylphenol   | µg/Kg       | 4800 U       | 2300 U      | 3700 U      | 10000 U J   | 5100 U      | 4500 U   | 1100 U   | 1000 UJ |
| N-Nitrosodiphenylamine (1)   | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 4-Bromophenyl-phenylether    | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Hexachlorobenzene            | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Pentachlorophenol            | µg/Kg       | 4800 U       | 2300 U      | 3700 U      | 10000 U J   | 5100 U      | 4500 U   | 1100 U   | 1000 UJ |
| Phenanthrene                 | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 99 J     | 440 U    | 64 J    |
| Anthracene                   | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Carbazole                    | µg/Kg       | NS           | NS          | NS          | NS          | NS          | NS       | 440 U    | 430 UJ  |
| Di-n-butylphthalate          | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Fluoranthene                 | µg/Kg       | 940 U        | 95 J        | 78 J        | 2100 U J    | 1100 U      | 130 J    | 440 U    | 110 J   |
| Pyrene                       | µg/Kg       | 940 U        | 110 J       | 780 U       | 2100 U J    | 1100 U      | 140 J    | 440 U    | 100 J   |
| Butylbenzylphthalate         | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| 3,3'-Dichlorobenzidine       | µg/Kg       | 1900 U       | 980 U       | 1500 U      | 4200 U J    | 2100 U      | 1900 U   | 440 U    | 430 UJ  |
| Benzo(a)anthracene           | µg/Kg       | 940 U        | 59 J        | 780 U       | 2100 U J    | 1100 U      | 88 J     | 440 U    | 48 J    |
| Chrysene                     | µg/Kg       | 940 U        | 84 J        | 780 U       | 2100 U J    | 1100 U      | 120 J    | 440 U    | 84 J    |
| bis(2-Ethylhexyl)phthalate   | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 100 J    | 440 U    | 430 UJ  |
| Di-n-octylphthalate          | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Benzo(b)fluoranthene         | µg/Kg       | 940 U        | 80 J        | 780 U       | 2100 U J    | 1100 U      | 96 J     | 440 U    | 47 J    |
| Benzo(k)fluoranthene         | µg/Kg       | 940 U        | 86 J        | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 52 J    |
| Benzo(a)pyrene               | µg/Kg       | 940 U        | 71 J        | 780 U       | 2100 U J    | 1100 U      | 100 J    | 440 U    | 35 J    |
| Indeno(1,2,3-cd)pyrene       | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 36 J    |
| Dibenz(a,h)anthracene        | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 430 UJ  |
| Benzo(g,h,i)perylene         | µg/Kg       | 940 U        | 480 U       | 780 U       | 2100 U J    | 1100 U      | 930 U    | 440 U    | 42 J    |

SENECA ARMY DEPOT, ASH LANDFILL  
 SEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL SW-700 | SOIL SW-700   | SOIL SW-800 | SOIL SW-900 | SOIL SW-900 | SOIL SW-901 | SOIL ASH | SOIL ASH |
|------------------------|-------------|---------------|-------------|-------------|-------------|-------------|----------|----------|
| DEPTH                  | N/A         | N/A           | N/A         | N/A         | N/A         | N/A         | ASH      | ASH      |
| DATE                   | 11/20/91    | 11/20/91      | 11/16/91    | 11/21/91    | 11/20/91    | 11/15/91    | 12/09/92 | 12/09/92 |
| ES ID                  | S2011-88    | S2011-88RE(1) | S1811-83    | S2011-87    | S2011-87    | S1511-76    | SD-WA    | SD-WB    |
| LAB ID                 | 149452      | 149452        | 149232      | 149451      | 149451      | 149114      | 175894   | 175895   |
| COMPOUND UNITS         |             |               |             |             |             |             |          |          |
| <b>Pesticides/PCBs</b> |             |               |             |             |             |             |          |          |
| alpha-BHC              | µg/Kg       | 23 U          | NS          | 18 U        | 51 U        | 23 U        | 23 U     | 2.3 U    |
| beta-BHC               | µg/Kg       | 23 U          | NS          | 18 U        | 51 U        | 23 U        | 23 U     | 2.3 U    |
| delta-BHC              | µg/Kg       | 23 U          | NS          | 18 U        | 51 U        | 23 U        | 23 U     | 2.3 U    |
| gamma-BHC (Lindane)    | µg/Kg       | 23 U          | NS          | 18 U        | 51 U        | 23 U        | 23 U     | 2.3 U    |
| Heptachlor             | µg/Kg       | 23 U          | NS          | 18 U        | 51 U        | 23 U        | 23 U     | 2.3 U    |
| Aldrin                 | µg/Kg       | 23 U          | NS          | 18 U        | 51 U        | 23 U        | 23 U     | 2.3 U    |
| Heptachlor epoxide     | µg/Kg       | 23 U          | NS          | 18 U        | 51 U        | 23 U        | 23 U     | 2.3 U    |
| Endosulfan I           | µg/Kg       | 23 U          | NS          | 18 U        | 51 U        | 23 U        | 23 U     | 2.3 U    |
| Dieldrin               | µg/Kg       | 48 U          | NS          | 37 U        | 100 U       | 48 U        | 45 U     | 4.4 U    |
| 4,4'-DDE               | µg/Kg       | 48 U          | NS          | 37 U        | 100 U       | 48 U        | 45 U     | 4.4 U    |
| Endrin                 | µg/Kg       | 48 U          | NS          | 37 U        | 100 U       | 48 U        | 45 U     | 4.4 U    |
| Endosulfan II          | µg/Kg       | 48 U          | NS          | 37 U        | 100 U       | 48 U        | 45 U     | 4.4 U    |
| 4,4'-DDD               | µg/Kg       | 48 U          | NS          | 37 U        | 100 U       | 48 U        | 45 U     | 4.4 U    |
| Endosulfan sulfate     | µg/Kg       | 48 U          | NS          | 37 U        | 100 U       | 48 U        | 45 U     | 4.4 U    |
| 4,4'-DDT               | µg/Kg       | 48 U          | NS          | 37 U        | 100 U       | 48 U        | 45 U     | 4.4 U    |
| Methoxychlor           | µg/Kg       | 230 U         | NS          | 180 U       | 510 U       | 230 U       | 230 U    | 23 U     |
| Endrin ketone          | µg/Kg       | 48 U          | NS          | 37 U        | 100 U       | 48 U        | 45 U     | 4.4 U    |
| Endrin aldehyde        | µg/Kg       | NS            | NS          | NS          | NS          | NS          | NS       | NS       |
| alpha-Chlordane        | µg/Kg       | 230 U         | NS          | 180 U       | 510 U       | 230 U       | 230 U    | 2.3 U    |
| gamma-Chlordane        | µg/Kg       | 230 U         | NS          | 180 U       | 510 U       | 230 U       | 230 U    | 2.3 U    |
| Toxaphene              | µg/Kg       | 480 U         | NS          | 370 U       | 1000 U      | 480 U       | 450 U    | 44 U     |
| Aroclor-1016           | µg/Kg       | 230 U         | NS          | 180 U       | 510 U       | 230 U       | 230 U    | 23 U     |
| Aroclor-1221           | µg/Kg       | 230 U         | NS          | 180 U       | 510 U       | 230 U       | 230 U    | 23 U     |
| Aroclor-1232           | µg/Kg       | 230 U         | NS          | 180 U       | 510 U       | 230 U       | 230 U    | 23 U     |
| Aroclor-1242           | µg/Kg       | 230 U         | NS          | 180 U       | 510 U       | 230 U       | 230 U    | 23 U     |
| Aroclor-1248           | µg/Kg       | 230 U         | NS          | 180 U       | 510 U       | 230 U       | 230 U    | 23 U     |
| Aroclor-1254           | µg/Kg       | 480 U         | NS          | 370 U       | 1000 U      | 480 U       | 450 U    | 44 U     |
| Aroclor-1260           | µg/Kg       | 480 U         | NS          | 370 U       | 1000 U      | 480 U       | 450 U    | 44 U     |
| <b>Herbicides</b>      |             |               |             |             |             |             |          |          |
| 2,4-D                  | µg/Kg       | 71 U J        | NS          | 57 U J      | 180 U J     | NS          | 70 U J   | 68 U     |
| 2,4-DB                 | µg/Kg       | 71 U J        | NS          | 57 U J      | 180 U J     | NS          | 70 U J   | 68 U     |
| 2,4,5-T                | µg/Kg       | 7 U J         | NS          | 6 U J       | 18 U J      | NS          | 7 U J    | 6.8 U    |
| 2,4,5-TP (Silvex)      | µg/Kg       | 7 U J         | NS          | 6 U J       | 18 U J      | NS          | 7 U J    | 6.8 U    |
| Dalepon                | µg/Kg       | 170 U J       | NS          | 140 U J     | 390 U J     | NS          | 170 U J  | 160 U    |
| Dicamba                | µg/Kg       | 7 U J         | NS          | 6 U J       | 18 U J      | NS          | 7 U J    | 6.8 U    |
| Dichloroprop           | µg/Kg       | 71 U J        | NS          | 57 U J      | 180 U J     | NS          | 70 U J   | 68 U     |
| Dinoseb                | µg/Kg       | 36 U J        | NS          | 29 U J      | 80 U J      | NS          | 35 U J   | 34 U     |
| MCPA                   | µg/Kg       | 7100 U J      | NS          | 5700 U J    | 16000 U J   | NS          | 7000 U J | 6800 U   |
| MCPP                   | µg/Kg       | 7100 U J      | NS          | 5700 U J    | 16000 U J   | NS          | 7000 U J | 6800 U   |
| <b>Metals</b>          |             |               |             |             |             |             |          |          |
| Aluminum               | mg/Kg       | 12700 J       | NS          | 13500       | 13900 J     | NS          | 13000    | 14600    |
| Antimony               | mg/Kg       | 11.8 U J      | NS          | 11.3 U      | 35.4 U J    | NS          | 15.4 U   | 11.6 UJ  |
| Arsenic                | mg/Kg       | 7.3 J         | NS          | 5.7         | 9 J         | NS          | 6.6      | 4.4 J    |
| Barium                 | mg/Kg       | 120 J         | NS          | 81.8        | 139 J       | NS          | 100      | 81.5     |
| Beryllium              | mg/Kg       | 0.73 J        | NS          | 0.81 J      | 1.1 J       | NS          | 0.98 J   | 0.82 J   |
| Cadmium                | mg/Kg       | 2.4 J         | NS          | 4.1         | 2.5 J       | NS          | 2.8      | 0.88 U   |
| Calcium                | mg/Kg       | 46900 J       | NS          | 42900       | 105000 J    | NS          | 24100    | 4770     |
| Chromium               | mg/Kg       | 21.3 J        | NS          | 22.8        | 22.8 J      | NS          | 24.1     | 22.5     |
| Cobalt                 | mg/Kg       | 12.5 J        | NS          | 17          | 12.7 U J    | NS          | 8.8 J    | 10 J     |
| Copper                 | mg/Kg       | 22.6 J        | NS          | 18.7        | 24.3 J      | NS          | 33.9     | 26.7     |
| Iron                   | mg/Kg       | 28200 J       | NS          | 36800       | 23900 J     | NS          | 26800    | 26400    |
| Lead                   | mg/Kg       | 37.3 J        | NS          | 8.5         | 21.5 J      | NS          | 31.3     | 19.2     |
| Magnesium              | mg/Kg       | 14900 J       | NS          | 7090        | 6260 J      | NS          | 4920     | 4090     |
| Manganese              | mg/Kg       | 913 J         | NS          | 1050        | 447 J       | NS          | 340      | 591      |
| Mercury                | mg/Kg       | 0.05 U J      | NS          | 0.04 U      | 0.12 U J    | NS          | 0.05 J   | 0.02 U   |
| Nickel                 | mg/Kg       | 27.9 J        | NS          | 37.8        | 22.8 J      | NS          | 28.3     | 29.4     |
| Potassium              | mg/Kg       | 1470 J        | NS          | 875 J       | 1690 J      | NS          | 1710     | 2110     |
| Selenium               | mg/Kg       | 1.8 U J       | NS          | 0.27 U      | 0.95 U J    | NS          | 1.8 U    | 1 J      |
| Silver                 | mg/Kg       | 1.9 U J       | NS          | 1.7 U       | 5.8 U J     | NS          | 2.5 U    | 0.68 U   |
| Sodium                 | mg/Kg       | 68.3 U J      | NS          | 195 J       | 205 U J     | NS          | 89 U     | 63.9 U   |
| Thallium               | mg/Kg       | 0.8 U J       | NS          | 0.45 U      | 1.8 U J     | NS          | 0.58 U   | 0.61 U   |
| Vanadium               | mg/Kg       | 20.8 J        | NS          | 20.3        | 29.1 J      | NS          | 21.6     | 21.8     |
| Zinc                   | mg/Kg       | 255 J         | NS          | 100         | 339 J       | NS          | 370      | 76       |
| Cyanide                | mg/Kg       | 0.83 U J      | NS          | 0.65 U      | 1.9 U J     | NS          | 0.82 U   | 0.79 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
 SEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION        | SOIL     | SOIL          | SOIL     | SOIL     | SOIL      | SOIL     | SOIL     | SOIL     |
|------------------------|----------|---------------|----------|----------|-----------|----------|----------|----------|
| DEPTH                  | SW-700   | SW-700        | SW-800   | SW-800   | SW-900    | SW-901   | ASH      | ASH      |
| DATE                   | 11/20/91 | 11/20/91      | 11/18/91 | 11/21/91 | 11/20/91  | 11/15/91 | 12/09/92 | 12/09/92 |
| ES ID                  | S2011-88 | S2011-88RE(M) | S1811-83 | S2011-87 | S2011-87  | S1811-78 | SD-WA    | SD-WB    |
| LAB ID                 | 149452   | 149452        | 149232   | 149451   | 149451    | 149114   | 175894   | 175895   |
| UNITS                  |          |               |          |          |           |          |          |          |
| <b>Pesticides/PCBs</b> |          |               |          |          |           |          |          |          |
| alpha-BHC              | µg/Kg    | 23 U          | NS       | 18 U     | 51 U      | 23 U     | 23 U     | 2.3 U    |
| beta-BHC               | µg/Kg    | 23 U          | NS       | 18 U     | 51 U      | 23 U     | 23 U     | 2.3 U    |
| delta-BHC              | µg/Kg    | 23 U          | NS       | 18 U     | 51 U      | 23 U     | 23 U     | 2.3 U    |
| gamma-BHC (Lindane)    | µg/Kg    | 23 U          | NS       | 18 U     | 51 U      | 23 U     | 23 U     | 2.3 U    |
| Heptachlor             | µg/Kg    | 23 U          | NS       | 18 U     | 51 U      | 23 U     | 23 U     | 2.3 U    |
| Aldrin                 | µg/Kg    | 23 U          | NS       | 18 U     | 51 U      | 23 U     | 23 U     | 2.3 U    |
| Heptachlor epoxide     | µg/Kg    | 23 U          | NS       | 18 U     | 51 U      | 23 U     | 23 U     | 2.3 U    |
| Endosulfan I           | µg/Kg    | 23 U          | NS       | 18 U     | 51 U      | 23 U     | 23 U     | 2.3 U    |
| Dieldrin               | µg/Kg    | 48 U          | NS       | 37 U     | 100 U     | 46 U     | 45 U     | 4.4 U    |
| 4,4'-DDE               | µg/Kg    | 48 U          | NS       | 37 U     | 100 U     | 46 U     | 45 U     | 4.4 U    |
| Endrin                 | µg/Kg    | 48 U          | NS       | 37 U     | 100 U     | 46 U     | 45 U     | 4.4 U    |
| Endosulfan II          | µg/Kg    | 48 U          | NS       | 37 U     | 100 U     | 46 U     | 45 U     | 4.4 U    |
| 4,4'-DDD               | µg/Kg    | 48 U          | NS       | 37 U     | 100 U     | 46 U     | 45 U     | 4.4 U    |
| Endosulfan sulfate     | µg/Kg    | 48 U          | NS       | 37 U     | 100 U     | 46 U     | 45 U     | 4.4 U    |
| 4,4'-DDT               | µg/Kg    | 48 U          | NS       | 37 U     | 100 U     | 46 U     | 45 U     | 4.4 U    |
| Methoxychlor           | µg/Kg    | 230 U         | NS       | 180 U    | 510 U     | 230 U    | 230 U    | 23 U     |
| Endrin ketone          | µg/Kg    | 48 U          | NS       | 37 U     | 100 U     | 46 U     | 45 U     | 4.4 U    |
| Endrin aldehyde        | µg/Kg    | NS            | NS       | NS       | NS        | NS       | NS       | 4.4 U    |
| alpha-Chlordane        | µg/Kg    | 230 U         | NS       | 180 U    | 510 U     | 230 U    | 230 U    | 2.3 U    |
| gamma-Chlordane        | µg/Kg    | 230 U         | NS       | 180 U    | 510 U     | 230 U    | 230 U    | 2.3 U    |
| Toxaphene              | µg/Kg    | 460 U         | NS       | 370 U    | 1000 U    | 460 U    | 450 U    | 230 U    |
| Aroclor-1018           | µg/Kg    | 230 U         | NS       | 180 U    | 510 U     | 230 U    | 230 U    | 44 U     |
| Aroclor-1221           | µg/Kg    | 230 U         | NS       | 180 U    | 510 U     | 230 U    | 230 U    | 89 U     |
| Aroclor-1232           | µg/Kg    | 230 U         | NS       | 180 U    | 510 U     | 230 U    | 230 U    | 44 U     |
| Aroclor-1242           | µg/Kg    | 230 U         | NS       | 180 U    | 510 U     | 230 U    | 230 U    | 44 U     |
| Aroclor-1248           | µg/Kg    | 230 U         | NS       | 180 U    | 510 U     | 230 U    | 230 U    | 44 U     |
| Aroclor-1254           | µg/Kg    | 460 U         | NS       | 370 U    | 1000 U    | 460 U    | 450 U    | 44 U     |
| Aroclor-1260           | µg/Kg    | 460 U         | NS       | 370 U    | 1000 U    | 460 U    | 450 U    | 44 U     |
| <b>Herbicides</b>      |          |               |          |          |           |          |          |          |
| 2,4-D                  | µg/Kg    | 71 U J        | NS       | 57 U J   | 180 U J   | NS       | 70 U J   | 68 U     |
| 2,4-DB                 | µg/Kg    | 71 U J        | NS       | 57 U J   | 180 U J   | NS       | 70 U J   | 68 U     |
| 2,4,5-T                | µg/Kg    | 7 U J         | NS       | 8 U J    | 18 U J    | NS       | 7 U J    | 6.8 U    |
| 2,4,5-TP (Silvex)      | µg/Kg    | 7 U J         | NS       | 8 U J    | 18 U J    | NS       | 7 U J    | 6.8 U    |
| Dalapon                | µg/Kg    | 170 U J       | NS       | 140 U J  | 390 U J   | NS       | 170 U J  | 160 U    |
| Dicamba                | µg/Kg    | 7 U J         | NS       | 8 U J    | 18 U J    | NS       | 7 U J    | 6.8 U    |
| Dichloroprop           | µg/Kg    | 71 U J        | NS       | 57 U J   | 180 U J   | NS       | 70 U J   | 68 U     |
| Dinoseb                | µg/Kg    | 38 U J        | NS       | 29 U J   | 80 U J    | NS       | 35 U J   | 33 U     |
| MCPPA                  | µg/Kg    | 7100 U J      | NS       | 5700 U J | 16000 U J | NS       | 7000 U J | 6800 U   |
| MCPP                   | µg/Kg    | 7100 U J      | NS       | 5700 U J | 16000 U J | NS       | 7000 U J | 6800 U   |
| <b>Metals</b>          |          |               |          |          |           |          |          |          |
| Aluminum               | mg/Kg    | 12700 J       | NS       | 13500    | 13900 J   | NS       | 13000    | 14800    |
| Antimony               | mg/Kg    | 11.8 U J      | NS       | 11.3 U   | 35.4 U J  | NS       | 15.4 U   | 11.8 UJ  |
| Arsenic                | mg/Kg    | 7.3 J         | NS       | 5.7      | 9 J       | NS       | 6.8      | 4.4 J    |
| Barium                 | mg/Kg    | 120 J         | NS       | 81.8     | 139 J     | NS       | 100      | 61.5     |
| Beryllium              | mg/Kg    | 0.73 J        | NS       | 0.81 J   | 1.1 J     | NS       | 0.98 J   | 0.82 J   |
| Cadmium                | mg/Kg    | 2.4 J         | NS       | 4.1      | 2.5 J     | NS       | 2.8      | 0.88 U   |
| Calcium                | mg/Kg    | 46900 J       | NS       | 42900    | 105000 J  | NS       | 24100    | 4770     |
| Chromium               | mg/Kg    | 21.3 J        | NS       | 22.8     | 22.8 J    | NS       | 24.1     | 22.5     |
| Cobalt                 | mg/Kg    | 12.5 J        | NS       | 17       | 12.7 U J  | NS       | 8.8 J    | 10 J     |
| Copper                 | mg/Kg    | 22.8 J        | NS       | 16.7     | 24.3 J    | NS       | 33.9     | 26.7     |
| Iron                   | mg/Kg    | 28200 J       | NS       | 36900    | 23900 J   | NS       | 26800    | 26400    |
| Lead                   | mg/Kg    | 37.5 J        | NS       | 8.5      | 21.5 J    | NS       | 31.3     | 19.2     |
| Magnesium              | mg/Kg    | 14900 J       | NS       | 7090     | 6280 J    | NS       | 4920     | 4090     |
| Manganese              | mg/Kg    | 913 J         | NS       | 1050     | 447 J     | NS       | 340      | 591      |
| Mercury                | mg/Kg    | 0.05 U J      | NS       | 0.04 U   | 0.12 U J  | NS       | 0.05 J   | 0.02 U   |
| Nickel                 | mg/Kg    | 27.9 J        | NS       | 37.8     | 22.8 J    | NS       | 28.3     | 29.4     |
| Potassium              | mg/Kg    | 1470 J        | NS       | 975 J    | 1690 J    | NS       | 1710     | 2110     |
| Selenium               | mg/Kg    | 1.8 U J       | NS       | 0.27 U   | 0.95 U J  | NS       | 1.8 U    | 1 J      |
| Silver                 | mg/Kg    | 1.9 U J       | NS       | 1.7 U    | 5.8 U J   | NS       | 2.5 U    | 0.68 U   |
| Sodium                 | mg/Kg    | 68.3 U J      | NS       | 195 J    | 205 U J   | NS       | 89 U     | 63.9 U   |
| Thallium               | mg/Kg    | 0.8 U J       | NS       | 0.45 U   | 1.6 U J   | NS       | 0.58 U   | 0.61 U   |
| Vanadium               | mg/Kg    | 20.8 J        | NS       | 20.3     | 29.1 J    | NS       | 21.6     | 21.6     |
| Zinc                   | mg/Kg    | 255 J         | NS       | 100      | 339 J     | NS       | 370      | 78       |
| Cyanide                | mg/Kg    | 0.83 U J      | NS       | 0.65 U   | 1.9 U J   | NS       | 0.82 U   | 0.79 U   |

SENECA ARMY DEPOT, ASH LANDFILL  
 SEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| COMPOUND                   | MATRIX LOCATION DEPTH DATE ES ID LAB ID UNITS | SOIL ASH 12/08/82 SD-WBRE 175895R1 | SOIL ASH 12/08/82 SD-WB1 175896 DUP SD-WB | SOIL ASH 12/08/82 SD-WB1FE 175896R1 | SOIL ASH 12/08/82 SD-WC 175897 | SOIL ASH 12/08/82 SD-WCRE 175897R1 | SOIL ASH 12/08/82 SD-WD 175898 | SOIL ASH 12/08/82 SD-WE 175899 | SOIL ASH 12/08/82 SD-WERE 175899R1 | SOIL ASH 12/08/82 SD-WF 175900 |
|----------------------------|---|------------------------------------|---|-------------------------------------|--------------------------------|------------------------------------|--------------------------------|--------------------------------|------------------------------------|--------------------------------|
| VOCs                       |   |                                    |   |                                     |                                |                                    |                                |                                |                                    |                                |
| Chloroethane               | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Bromoethane                | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Vinyl Chloride             | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Chloroethane               | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Methylene Chloride         | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Acetone                    | µg/Kg   | NS                                 | 8 J                                       | NS                                  | 12 U                           | NS                                 | 19                             | 8 J                            | NS                                 | 12 U                           |
| Carbon Disulfide           | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 1,1-Dichloroethane         | µg/Kg   | NS                                 | 18  | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 1,1-Dichloroethane         | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 1,2-Dichloroethane (total) | µg/Kg   | NS                                 | 590                                       | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Chloroform                 | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 1,2-Dichloroethane         | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 2-Butanone                 | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 1,1,1-Trichloroethane      | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Carbon Tetrachloride       | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Vinyl Acetate              | µg/Kg   | NS                                 | NS  | NS                                  | NS                             | NS                                 | NS                             | NS                             | NS                                 | NS                             |
| Bromodichloroethane        | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 1,2-Dichloropropene        | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| cis-1,3-Dichloropropene    | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| trans-1,3-Dichloropropene  | µg/Kg   | NS                                 | 7 J                                       | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Trichloroethene            | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Dibromochloroethane        | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 1,1,2-Trichloroethane      | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Benzene                    | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| trans-1,3-Dichloropropene  | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Bromoform                  | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 4-Methyl-2-Pentanone       | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 2-Hexanone                 | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Tetrachloroethene          | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| 1,1,2,2-Tetrachloroethane  | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Toluene                    | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Chlorobenzene              | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Ethylbenzene               | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Styrene                    | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |
| Xylene (total)             | µg/Kg   | NS                                 | 13 U                                      | NS                                  | 12 U                           | NS                                 | 16 U                           | 15 U                           | NS                                 | 12 U                           |

SENECA ARMY DEPOT, ASH LANDFILL  
 BEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| MATRIX LOCATION DEPTH DATE LAB ID | SOIL ASH    | SOIL ASH | SOIL ASH | SOIL ASH | SOIL ASH | SOIL ASH | SOIL ASH | SOIL ASH  | SOIL ASH |       |
|-----------------------------------|-------------|----------|----------|----------|----------|----------|----------|-----------|----------|-------|
| ES ID                             | 12/08/82    | 12/08/82 | 12/08/82 | 12/08/82 | 12/08/82 | 12/08/82 | 12/08/82 | 12/08/82  | 12/08/82 |       |
| SD - WBRE                         | SD - WBRE   | SD - WB1 | SD - WB1 | SD - WC  | SD - WC  | SD - WD  | SD - WE  | SD - WERE | SD - WF  |       |
| 175896R1                          | 175896R1    | 175898R1 | 175898R1 | 175897   | 175897R1 | 175896   | 175899   | 175899R1  | 175900   |       |
| COMPOUND UNITS                    | DUP SD - WB |          |          |          |          |          |          |           |          |       |
| <b>Semivolatiles</b>              |             |          |          |          |          |          |          |           |          |       |
| Phenol                            | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| bis(2-Chloroethyl) ether          | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2-Chlorophenol                    | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 1,3-Dichlorobenzene               | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 1,4-Dichlorobenzene               | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Benzyl Alcohol                    | µg/Kg       | NS       | NS       | NS       | NS       | NS       | NS       | NS        | NS       | NS    |
| 1,2-Dichlorobenzene               | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2-Methylphenol                    | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| bis(2-Chloroisopropyl) ether      | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 4-Methylphenol                    | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| N-Nitroso-di-n-propylamine        | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Hexachloroethane                  | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Nitrobenzene                      | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Isophorone                        | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2-Nitrophenol                     | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2,4-Dimethylphenol                | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Benzoic acid                      | µg/Kg       | NS       | NS       | NS       | NS       | NS       | NS       | NS        | NS       | NS    |
| bis(2-Chloroethoxy) methane       | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2,4-Dichlorophenol                | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 1,2,4-Trichlorobenzene            | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Naphthalene                       | µg/Kg       | 440 UJ   | 470 UJ   | 22 J     | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 4-Chloroaniline                   | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Hexachlorobutadiene               | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 4-Chloro-3-methylphenol           | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2-Methylnaphthalene               | µg/Kg       | 440 UJ   | 30 J     | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Hexachlorocyclopentadiene         | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2,4,6-Trichlorophenol             | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2,4,5-Trichlorophenol             | µg/Kg       | 1000 UJ  | 1100 UJ  | 1100 UJ  | 910 UJ   | 930 UJ   | 1800 U   | 1200 UJ   | 1200 UJ  | 930 U |
| 2-Chloronaphthalene               | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2-Nitroaniline                    | µg/Kg       | 1000 UJ  | 1100 UJ  | 1100 UJ  | 910 UJ   | 930 UJ   | 1800 U   | 1200 UJ   | 1200 UJ  | 930 U |
| Dimethylphthalate                 | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Acenaphthylene                    | µg/Kg       | 18 J     | 72 J     | 90 J     | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2,6-Dinitrotoluene                | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 3-Nitroaniline                    | µg/Kg       | 1000 UJ  | 1100 UJ  | 1100 UJ  | 910 UJ   | 930 UJ   | 1800 U   | 1200 UJ   | 1200 UJ  | 930 U |
| Acenaphthene                      | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2,4-Dinitrophenol                 | µg/Kg       | 1000 UJ  | 1100 UJ  | 1100 UJ  | 910 UJ   | 930 UJ   | 1800 U   | 1200 UJ   | 1200 UJ  | 930 U |
| 4-Nitrophenol                     | µg/Kg       | 1000 UJ  | 1100 UJ  | 1100 UJ  | 910 UJ   | 930 UJ   | 1800 U   | 1200 UJ   | 1200 UJ  | 930 U |
| Dibenzofuran                      | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 2,4-Dinitrotoluene                | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 100 J    | 380 U |
| Diethylphthalate                  | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 4-Chlorophenyl-phenylether        | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Fluorene                          | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 20 J     | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 4-Nitroaniline                    | µg/Kg       | 1000 UJ  | 1100 UJ  | 1100 UJ  | 910 UJ   | 930 UJ   | 1800 U   | 1200 UJ   | 1200 UJ  | 930 U |
| 4,6-Dinitro-2-methylphenol        | µg/Kg       | 1000 UJ  | 1100 UJ  | 1100 UJ  | 910 UJ   | 930 UJ   | 1800 U   | 1200 UJ   | 1200 UJ  | 930 U |
| N-Nitrosodiphenylamine (1)        | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 58 J     | 380 U |
| 4-Bromophenyl-phenylether         | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Hexachlorobenzene                 | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Pentachlorophenol                 | µg/Kg       | 1000 UJ  | 1100 UJ  | 1100 UJ  | 910 UJ   | 930 UJ   | 1800 U   | 1200 UJ   | 1200 UJ  | 930 U |
| Phenanthrene                      | µg/Kg       | 88 J     | 220 J    | 180 J    | 170 J    | 28 J     | 670 U    | 88 J      | 280 J    | 68 J  |
| Anthracene                        | µg/Kg       | 19 J     | 62 J     | 37 J     | 30 J     | 380 UJ   | 670 U    | 500 UJ    | 85 J     | 12 J  |
| Carbazole                         | µg/Kg       | 440 UJ   | 48 J     | 48 J     | 32 J     | 380 UJ   | 670 U    | 500 UJ    | 87 J     | 380 U |
| Di-n-butylphthalate               | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 21 J     | 500 UJ    | 500 UJ   | 16 J  |
| Fluoranthene                      | µg/Kg       | 140 J    | 440 J    | 290 J    | 300 J    | 49 J     | 30 J     | 120 J     | 370 J    | 140 J |
| Pyrene                            | µg/Kg       | 180 J    | 420 J    | 300 J    | 240 J    | 58 J     | 25 J     | 98 J      | 410 J    | 110 J |
| Butylbenzylphthalate              | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| 3,3'-Dichlorobenzidine            | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Benzo(a)anthracene                | µg/Kg       | 84 J     | 230 J    | 180 J    | 130 J    | 30 J     | 670 U    | 53 J      | 250 J    | 59 J  |
| Chrysene                          | µg/Kg       | 100 J    | 300 J    | 180 J    | 150 J    | 38 J     | 670 U    | 89 J      | 250 J    | 84 J  |
| bis(2-Ethylhexyl)phthalate        | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 200 J |
| Di-n-octylphthalate               | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Benzo(b)fluoranthene              | µg/Kg       | 80 J     | 230 J    | 150 J    | 140 J    | 37 J     | 670 U    | 80 J      | 210 J    | 78 J  |
| Benzo(k)fluoranthene              | µg/Kg       | 80 J     | 220 J    | 150 J    | 140 J    | 37 J     | 670 U    | 81 J      | 200 J    | 70 J  |
| Benzo(a)pyrene                    | µg/Kg       | 83 J     | 190 J    | 150 J    | 59 J     | 34 J     | 9 J      | 42 J      | 220 J    | 35 J  |
| Indeno(1,2,3-cd)pyrene            | µg/Kg       | 87 J     | 140 J    | 120 J    | 91 J     | 25 J     | 670 U    | 57 J      | 150 J    | 53 J  |
| Dibenz(a,h)anthracene             | µg/Kg       | 440 UJ   | 470 UJ   | 470 UJ   | 380 UJ   | 380 UJ   | 670 U    | 500 UJ    | 500 UJ   | 380 U |
| Benzofluoranthene                 | µg/Kg       | 77 J     | 170 J    | 97 J     | 85 J     | 380 UJ   | 670 U    | 44 J      | 110 J    | 53 J  |

SENECA ARMY DEPOT, ASH LANDFILL  
 SEDIMENT ANALYSIS RESULTS  
 VALIDATED DATA (PHASES I & II)

| COMPOUND            | MATRIX LOCATION DEPTH DATE ES ID LAB ID UNITS | SOIL ASH                 | SOIL ASH                | SOIL ASH                  | SOIL ASH              | SOIL ASH                  | SOIL ASH              | SOIL ASH              | SOIL ASH                  | SOIL ASH              |
|---------------------|---|--------------------------|-------------------------|---------------------------|-----------------------|---------------------------|-----------------------|-----------------------|---------------------------|-----------------------|
|                     |   | 12/09/92 SD-WBRE 17589R1 | 12/09/92 SD-WB1 17589R1 | 12/09/92 SD-WB1RE 17589R1 | 12/09/92 SD-WC 175897 | 12/09/92 SD-WCRE 175897R1 | 12/09/92 SD-WD 175898 | 12/09/92 SD-WE 175899 | 12/09/92 SD-WERE 175899R1 | 12/09/92 SD-WF 175900 |
| Pesticides/PCBs     |   |                          |                         |                           |                       |                           |                       |                       |                           |                       |
| alpha-BHC           | µg/Kg   | NS                       | 2.4 U                   | NS                        | 2.4 U                 | NS                        | 3.5 U                 | 2.5 U                 | NS                        | 2.4 U                 |
| beta-BHC            | µg/Kg   | NS                       | 2.4 U                   | NS                        | 2.4 U                 | NS                        | 3.5 U                 | 2.5 U                 | NS                        | 2.4 U                 |
| delta-BHC           | µg/Kg   | NS                       | 2.4 U                   | NS                        | 2.4 U                 | NS                        | 3.5 U                 | 2.5 U                 | NS                        | 2.4 U                 |
| gamma-BHC (Lindane) | µg/Kg   | NS                       | 2.4 U                   | NS                        | 2.4 U                 | NS                        | 3.5 U                 | 2.5 U                 | NS                        | 2.4 U                 |
| Heptachlor          | µg/Kg   | NS                       | 2.4 U                   | NS                        | 2.4 U                 | NS                        | 3.5 U                 | 2.5 U                 | NS                        | 2.4 U                 |
| Aldrin              | µg/Kg   | NS                       | 2.4 U                   | NS                        | 2.4 U                 | NS                        | 3.5 U                 | 2.5 U                 | NS                        | 2.4 U                 |
| Heptachlor epoxide  | µg/Kg   | NS                       | 2.4 U                   | NS                        | 2.4 U                 | NS                        | 3.5 U                 | 2.5 U                 | NS                        | 2.4 U                 |
| Endosulfan I        | µg/Kg   | NS                       | 2.4 U                   | NS                        | 2.4 U                 | NS                        | 3.5 U                 | 2.5 U                 | NS                        | 2.4 U                 |
| Dieldrin            | µg/Kg   | NS                       | 4.7 U                   | NS                        | 3.8 U                 | NS                        | 6.8 U                 | 4.9 U                 | NS                        | 3.8 U                 |
| 4,4'-DDE            | µg/Kg   | NS                       | 2.4 J                   | NS                        | 4.8                   | NS                        | 6.8 U                 | 4.5 J                 | NS                        | 20                    |
| Endrin              | µg/Kg   | NS                       | 2.3 J                   | NS                        | 3.8 U                 | NS                        | 6.8 U                 | 4.8 U                 | NS                        | 3.8 U                 |
| Endosulfan II       | µg/Kg   | NS                       | 4.7 U                   | NS                        | 3.8 U                 | NS                        | 6.8 U                 | 4.9 U                 | NS                        | 3.8 U                 |
| 4,4'-DDD            | µg/Kg   | NS                       | 4.7 U                   | NS                        | 3.8 U                 | NS                        | 6.8 U                 | 4.9 U                 | NS                        | 1.7 J                 |
| Endosulfan sulfate  | µg/Kg   | NS                       | 2.7 J                   | NS                        | 3.8 U                 | NS                        | 6.8 U                 | 4.8 U                 | NS                        | 3.8 U                 |
| 4,4'-DDT            | µg/Kg   | NS                       | 4.7 UJ                  | NS                        | 2.4 J                 | NS                        | 6.8 U                 | 4.8 UJ                | NS                        | 3.8 U                 |
| Methoxychlor        | µg/Kg   | NS                       | 24 U                    | NS                        | 20 U                  | NS                        | 35 U                  | 25 U                  | NS                        | 20 U                  |
| Endrin ketone       | µg/Kg   | NS                       | 4.7 U                   | NS                        | 3.8 U                 | NS                        | 6.8 U                 | 4.9 U                 | NS                        | 3.8 U                 |
| Endrin aldehyde     | µg/Kg   | NS                       | 4.7 UJ                  | NS                        | 3.8 U                 | NS                        | 6.8 U                 | 4.9 UJ                | NS                        | 3.8 U                 |
| alpha-Chlordane     | µg/Kg   | NS                       | 1.8 J                   | NS                        | 3.8 J                 | NS                        | 3.5 U                 | 1.8 J                 | NS                        | 2 U                   |
| gamma-Chlordane     | µg/Kg   | NS                       | 2.4 U                   | NS                        | 2 U                   | NS                        | 3.5 U                 | 2.5 U                 | NS                        | 2 U                   |
| Toxaphene           | µg/Kg   | NS                       | 240 U                   | NS                        | 200 U                 | NS                        | 350 U                 | 250 U                 | NS                        | 200 U                 |
| Aroclor-1018        | µg/Kg   | NS                       | 47 U                    | NS                        | 38 U                  | NS                        | 68 U                  | 49 U                  | NS                        | 38 U                  |
| Aroclor-1221        | µg/Kg   | NS                       | 84 U                    | NS                        | 78 U                  | NS                        | 140 U                 | 100 U                 | NS                        | 77 U                  |
| Aroclor-1232        | µg/Kg   | NS                       | 47 U                    | NS                        | 38 U                  | NS                        | 68 U                  | 49 U                  | NS                        | 38 U                  |
| Aroclor-1242        | µg/Kg   | NS                       | 47 U                    | NS                        | 38 U                  | NS                        | 68 U                  | 49 U                  | NS                        | 38 U                  |
| Aroclor-1248        | µg/Kg   | NS                       | 47 U                    | NS                        | 38 U                  | NS                        | 68 U                  | 49 U                  | NS                        | 38 U                  |
| Aroclor-1254        | µg/Kg   | NS                       | 47 U                    | NS                        | 38 U                  | NS                        | 68 U                  | 49 U                  | NS                        | 38 U                  |
| Aroclor-1260        | µg/Kg   | NS                       | 47 U                    | NS                        | 38 U                  | NS                        | 68 U                  | 49 U                  | NS                        | 38 U                  |
| Herbicides          |   |                          |                         |                           |                       |                           |                       |                       |                           |                       |
| 2,4-D               | µg/Kg   | NS                       | 71 U                    | NS                        | 56 U                  | NS                        | 100 U                 | 78 U                  | NS                        | 59 U                  |
| 2,4-DB              | µg/Kg   | NS                       | 71 U                    | NS                        | 56 U                  | NS                        | 100 U                 | 78 U                  | NS                        | 59 U                  |
| 2,4,5-T             | µg/Kg   | NS                       | 7.1 U                   | NS                        | 5.8 U                 | NS                        | 10 U                  | 7.8 U                 | NS                        | 5.9 U                 |
| 2,4,5-TP (Silvex)   | µg/Kg   | NS                       | 7.1 U                   | NS                        | 5.8 U                 | NS                        | 10 U                  | 7.8 U                 | NS                        | 5.9 U                 |
| Desapon             | µg/Kg   | NS                       | 170 U                   | NS                        | 140 U                 | NS                        | 250 U                 | 180 U                 | NS                        | 140 U                 |
| Disamba             | µg/Kg   | NS                       | 7.1 U                   | NS                        | 5.8 U                 | NS                        | 10 U                  | 7.8 U                 | NS                        | 5.9 U                 |
| Dichloroprop        | µg/Kg   | NS                       | 71 U                    | NS                        | 58 U                  | NS                        | 100 U                 | 78 U                  | NS                        | 59 U                  |
| Dinoseb             | µg/Kg   | NS                       | 38 U                    | NS                        | 29 U                  | NS                        | 82 U                  | 38 U                  | NS                        | 30 U                  |
| MCPA                | µg/Kg   | NS                       | 7100 U                  | NS                        | 5800 U                | NS                        | 10000 U               | 7800 U                | NS                        | 5800 U                |
| MCPP                | µg/Kg   | NS                       | 7100 U                  | NS                        | 5800 U                | NS                        | 10000 U               | 7800 U                | NS                        | 5800 U                |
| Metals              |   |                          |                         |                           |                       |                           |                       |                       |                           |                       |
| Aluminum            | mg/Kg   | NS                       | 11100                   | NS                        | 12100                 | NS                        | 12400                 | 11700                 | NS                        | 14100                 |
| Antimony            | mg/Kg   | NS                       | 8.5 UJ                  | NS                        | 9.4 UJ                | NS                        | 18.5 UJ               | 9.3 UJ                | NS                        | 12.5 UJ               |
| Arsenic             | mg/Kg   | NS                       | 7.5 J                   | NS                        | 3.5 J                 | NS                        | 2.2 J                 | 3.5 J                 | NS                        | 5.4 J                 |
| Barium              | mg/Kg   | NS                       | 82.2                    | NS                        | 55.1                  | NS                        | 95.8                  | 98.8                  | NS                        | 51.8                  |
| Beryllium           | mg/Kg   | NS                       | 0.55 J                  | NS                        | 0.53 J                | NS                        | 0.54 J                | 0.83 J                | NS                        | 0.61 J                |
| Cadmium             | mg/Kg   | NS                       | 0.58 U                  | NS                        | 0.54 U                | NS                        | 0.84 U                | 0.48 U                | NS                        | 0.78 J                |
| Calcium             | mg/Kg   | NS                       | 7840                    | NS                        | 34800                 | NS                        | 13200                 | 8940                  | NS                        | 18500                 |
| Chromium            | mg/Kg   | NS                       | 19                      | NS                        | 20.8                  | NS                        | 17.7                  | 22                    | NS                        | 26.5                  |
| Cobalt              | mg/Kg   | NS                       | 8.1 J                   | NS                        | 9.8                   | NS                        | 7.8 J                 | 10.8                  | NS                        | 12.8                  |
| Copper              | mg/Kg   | NS                       | 31.4                    | NS                        | 27.4                  | NS                        | 26.9                  | 44.1                  | NS                        | 39.1                  |
| Iron                | mg/Kg   | NS                       | 18700                   | NS                        | 23400                 | NS                        | 18900                 | 26700                 | NS                        | 26300                 |
| Lead                | mg/Kg   | NS                       | 89.4                    | NS                        | 32.2                  | NS                        | 23.8                  | 132                   | NS                        | 96.1                  |
| Magnesium           | mg/Kg   | NS                       | 3370                    | NS                        | 5870                  | NS                        | 4290                  | 4390                  | NS                        | 6880                  |
| Manganese           | mg/Kg   | NS                       | 398                     | NS                        | 363                   | NS                        | 228 J                 | 355                   | NS                        | 323                   |
| Mercury             | mg/Kg   | NS                       | 0.08                    | NS                        | 0.02 J                | NS                        | 0.05 J                | 0.81                  | NS                        | 0.2                   |
| Nickel              | mg/Kg   | NS                       | 21.8                    | NS                        | 33.1                  | NS                        | 20                    | 33.8                  | NS                        | 45.9                  |
| Potassium           | mg/Kg   | NS                       | 1390                    | NS                        | 1370                  | NS                        | 1420 J                | 1050                  | NS                        | 1780                  |
| Selenium            | mg/Kg   | NS                       | 0.98 J                  | NS                        | 0.89 J                | NS                        | 1 J                   | 0.97 J                | NS                        | 0.83 J                |
| Silver              | mg/Kg   | NS                       | 0.58 U                  | NS                        | 0.58 U                | NS                        | 0.98 U                | 0.83 J                | NS                        | 0.78 U                |
| Sodium              | mg/Kg   | NS                       | 58.7 J                  | NS                        | 89.5 J                | NS                        | 81.1 U                | 72 J                  | NS                        | 84.5 J                |
| Thallium            | mg/Kg   | NS                       | 0.53 U                  | NS                        | 0.58 U                | NS                        | 0.73 U                | 0.84 U                | NS                        | 0.89 U                |
| Vanadium            | mg/Kg   | NS                       | 18.8                    | NS                        | 19.4                  | NS                        | 19.2                  | 18.5                  | NS                        | 21                    |
| Zinc                | mg/Kg   | NS                       | 592                     | NS                        | 185                   | NS                        | 143                   | 200                   | NS                        | 396                   |
| Cyanide             | mg/Kg   | NS                       | 1                       | NS                        | 0.67 U                | NS                        | 1.2 U                 | 0.81 U                | NS                        | 0.67 U                |